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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके

[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 15th December, 1990

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Madras-600 002.

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Telegraphic address "PATENTOFIS"

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 15 दिसम्बर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोढी इस्टेट,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—"पेटोफिस"

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—"पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिकॉय तथा एमिनिविधि द्वीप।

तार पता—"पेटेंटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य बनावेश अथवा डाक आवेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है।

CORRIGENDA

In the Gazette of India, Part-III, Section-2, dated 7th April, 1990 in Page No. 360, under the heading 'CESSATION OF PATENTS' read the following numbers :—

152807 160244 161224 163287 163683 163977 164185.

In the Gazette of India, Part-III, Section-2, dated 14th April, 1990 in the Page No. 389, after CHANGE OF NAME OF THE APPLICANTS FOR PATENTS add UNDER SECTION 20 (1).

In the Gazette of India, Part-III, Section-2, dated 31st March, 1990 in the Page No. 319, from the heading of REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. PATENTS SEALED delete REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

7th November, 1990

931/Cal/90. Indian Jute Industries' Research Association. On-line instrument for measurement of jute sliver parameters.

932/Cal/90. Telemecanique. Electrical control and/or signalling device intended to be fastened in an orifice of a wall.

933/Cal/90. Center for design research and development N. V. Adjustable seating.

934/Cal/90. Mediolanum Farmaceuti Ci Srl. Process for the preparation of a pyridobenzothiazine derivative. [Divisional dated 2nd March, 1989].

935/Cal/90. Darya Paye Jetty Co., Ltd. Method of manufacturing an artificial construction on the bottom of a body of water, such as an artificial island, apparatus for performing the method according to the invention and construction to be manufactured with and obtained by applying the method and apparatus according to the invention.

936/Cal/90. Westinghouse Electric Corporation. Improvements in or relating to gas turbine control system having maximum instantaneous load pickup limiter.

8th November, 1990

937/Cal/90. E.I. Du Pont De Nemours and Company. Fibers of sulfonated poly (P-Phenylene Terephthalamide).

938/Cal/90. Projects & Development India Limited. Improved desulphurisation agents and to a method of preparing the same.

9th November, 1990

939/Cal/90. Hoechst Aktiengesellschaft. Azo compounds and their use as dyes, 1-sulfo-6-carboxy-2-amino-phthalene, its use as a precursor of the azo compounds, and a process for the preparation of these compounds.

940/Cal/90. Hoechst Aktiengesellschaft. Process for the continuous preparation of 3, 3'-dichlorobenzidine dihydrochloride.

941/Cal/90. Eaton Corporation. Mechanical transmission and control method therefor. [Divisional dated 17th Februry, 1988].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

29th October, 1990

861/Mas/90. R. Chandrashekhara Joshi. Improvement in agricultural machines.

862/Mas/90. Mitsubishi Denki Kabushiki Kaisha. Induction rotary electric machine.

863/Mas/90. Minnesota Mining and Manufacturing Company. Sealed insulation displacement connector.

864/Mas/90. Lonza Ltd. Surface modified fillers.

865/Mas/90. Donald H. Mac ADAM. A switch. (Divisional to Patent Application No. 1018/Mas/86).

866/Mas/90. Lacrex SA. Apparatus for Detachably clamping, tensioning and securing ropes, cables, wires, belts or the like.

867/Mas/70. Hoechst Aktiengesellschaft. Process for producing a negative-woking photosensitive printing form.

868/Mas/90. Anil Ananthakrishna. Electric Traction.

30th October, 1990

869/Mas/90. Union Carbide Chemicals and Plastics Company Inc., Process for the preparation of random copolymers.

870/Mas/90. Union Carbide Chemicals and Plastics Company Inc. Process for the preparation of random copolymers.

871/Mas/90. Rosemount Inc. Aerodynamic probe internal constructions.

31st October, 1990

872/Mas/90. Stamicarbon B. V. Process for the polymerization and recovery of nitrile rubber containing high bound acrylonitrile.

873/Mas/90. Stamicarbon B. V. Process and composition for manufacturing firable rubber bales.

874/Mas/90. Stamicarbon B. V. Accelerator compositions and rubber compounding composition embodying the same.

875/Mas/90. Transaction Technology Inc. Computer and telephone apparatus with user friendly computer interface and enhanced integrity features.

1st November, 1990

876/Mas/90. A. P. Mohanda. The Machine: Wet & Dry grinding machine of grains.

877/Mas/90. Malayude Vadakkethil Raghavan Chandramohanan. A simple proof of fermat's last theorem.

878/Mas/90. Usinor Sacilor. Roll for a device for continuous casting on a roll or between two rolls.

ALTERATION

167750 (673/Mas/88) : Anti-dated to 18th April, 1989.

OPPOSITION PROCEEDINGS

The Opposition entered by Wimco Limited, Bombay to the grant of a patent on application No. 158011 (177/Mas/82) made by C. H. Krishna Murthy and R. Sivasubramaniam as notified in the Gazette of India, Part III, Section 2 dated 7th February, 1987 has been withdrawn but the said application has been refused under Section 27 of the Patent Act, 1970.

PATENTS SEALED

165836 165931 165949 166044 166102 166103 166104 166106 166128 166136 166137 166151 166181 166208 166218 166226 166254 166284 166300 166304 166307 166309 166310 166328 166329 166341 166343 166363 166376 166391 166392 166393 166394 166397 166398

CAL—6
DEL—10
MAS—12
BOM—7

AMENDMENTS PROCEEDINGS UNDER SECTION 57

Notice is hereby given that M/s. Unique Mobility Inc. U.S.A. has/have made an application on form 29 under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 1133/Del/86 for A LIGHT WEIGHT ELECTROMAGNETIC TRANSDUCER HAVING HIGH POWER OUTPUT CAPABILITY AND A DYNAMO ELECTRIC MACHINE COMPRISING THE SAME. The amendments are by way of correction so as to ascertain and describe the invention more correctly and precisely. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form 30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-10005. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

AMENDMEMNT OF PATENT UNDER SECTION 44 OF THE PATENTS ACT, 1970

In pursuance of an application under Section 44 of the Patents Act 1970, Patent No. 155085 has been amended by substituting the name and address of MONICA HANLET for the name and address of JACQUES MARIE HANLET, a Co-Patentee.

In pursuance of an application under section 44 of the Patents Act 1970, Patent No. 152144 has been amended by deleting the name of GIUSEPPE GIAMMARCO, a Co-Patentee.

In pursuance of an application under Section 44 of the Patents Act 1970, Patent No. 155053 has been amended by deleting the name of GIUSEPPE GIAMARCO, a Co-Patentee.

AMENDMENTS PROCEEDINGS UNDER SECTION 57

Notice is hereby given that GPT INTERNATIONAL LIMITED, A BRITISH COMPANY has/have made an application on form-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for Patent No. 204/Del/87 for RINGING CIRCUIT. The amendments are by way of Change of name from GEC Plessey Telecommunications Limited to GPT International Limited. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005. If the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

149798 147456 147818 147835 147887 147990 148030 148556 148657
148658 148757 149087 149167 149251 149367 149421 149513 149666
150062 150111 150738 150786 150843 150879 150933 151027 151107
151307 151467 151620 151656 151698 152128 152131 152137 152144
152190 152191 152237 152420 152450 152727 153097 153176 153286
153496 153621 153757 153758 153841 153847 153861 153945 153948
154126 154127 154215 154232 154242 154285 154287 154306 154307
154308 154374 154379 154383 154384 154397 154421 154471 154503
154593 154618 154620 155280 155366 155404 155468 155477 155573
155697 155730 155790 155841 155885 155892 155893 155989 156030
156031 156054 156202 156207 156208 156219 156234 156313 156530
156674 156675 156837 156933 156963 157158 157215 157317 157321
157367 157602 157612 157613 157787 157852 157886 157948 157949
157996 157996 157999 158057 158087 158118 158133 158244 158331
158347 158352 158356 158371 158421 158431 158568 158573 158652
158707 158846 158856 158859 158860 158865 158874 158917 158918
158935 159104 159107 159289 159335 159336 159363 159454 159478
159687 159688 159743 159757 159826 159835 159836 159858 159891
159954 159955 159962 160012 160117 160211 160269 160271 160274
160275 160276 160288 160364 160410 160564 160658 160687 160689
160754 160870 160904 160905 160906 160908 160958 160961 160975
161016 161152 161158 161172 161204 161229 161252 161253 161272
161274 161321 161336 161340 161390 161451 161728 161743 161782
161801 161899 161972 161990 162029 162091 162100 162143 162253
162261 162307 162530 162613 162614 162679 162680 162860 162912
163119 163173 163193 163215 163240 163269 163271 163272 163282
163447 163489 163641 163679 163712 163812 163828 164006 164058
164222 164225 164416 164537 164561 164607 164608 164655 164656
164662 164753 164756 164759 164772 164776 164777 164778 164801
164803 164805 164808 164810 164842 164843 164845 164850 164961
164971 165298 165416 165656 165687 165708 165822 165946 165990
166090 166130 166195

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given beow in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompained by the number of the specifications as shown in the following list

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2-/ रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु माँग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

CLASS : 32-E. 167721
Int. Cl : C 08 f 2/22, 14/00

A PROCESS FOR POLYMERIZING OR COPOLYMERIZING FLUORINATED MONOMERS.

Applicant : AUSIMONT S.P.A. OF 31, FORO BUONAPARTE, MILAN, ITALY.

Inventors : (1) ENZO GIANNETTI, (2) MARIO VISCA

Application No. 334/Cal/1987 filed April 27, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A process for polymerizing of copolymerizing fluorinated olefin monomers, in an aqueous dispersion, by using radicals starters in the amount ranging from 0.003% to 2% by weight and a fluorinated surfactant in the amount of 0.005-2 ml., characterised in that the polymerisation is effected in the presence of an aqueous microemulsion of perfluoropolyethers with a molecular weight ranging from 600 to 3000 and having neutral end groups, and perfluoropolyethers being liquid under the polymerisation condition.

Compl. Specn. 22 Pages. Drg. Nil.

CLASS : 133-A. 167722
Int. Cl : H 02 p 5/00.

A SYSTEM USEFUL FOR CONTINUOUSLY PROPELLING LINEAR SYNCHRONOUS MOTOR SECONDARIES ALONG AN ELONGATED LINEAR MOTOR PRIMARY.

Applicant : E.I.DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : (1) WILLIAM JOHN HOMMES, (2) JOHN JOSEPH KEEGAN, JR.

Application No. 472/Cal/1987 filed June 17, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A system useful for continuously propelling linear synchronous motor secondaries along an elongated linear motor primary having the coils in the motor primary electrically grouped into zones which are disposed along at least a portion of an elongated path comprising

a plurality of linear synchronous motor drivers, with each adapted to independently develop a waveform having specific predetermined frequency and phase characteristics to designated zones of the motor primary for developing a travelling electromagnetic wave;

a plurality of driver controller, controller means, each connected to each motor driver, each of said driver controller means having a memory containing predetermined instructions defining said characteristics of the waveform, and each of said driver controller means independently adapted to provide said instructions to the motor driver connected thereto, said predetermined instructions in each memory means adapted to cause the waveform developed by each driver to propel one synchronous motor secondary at a time completely through said zone, said instructions in the memory means for one zone coordinated in a predetermined manner with the instructions in the memory means for each adjacent zone;

a timing means connected to each of the driver controller means and adapted to cause simultaneous sequencing through the memories of all of the driver controllers to control the providing of instructions from each of the driver controllers to the motor driver connected thereto such that the coordination of instructions between zones results in the propelling of secondary synchronously from one zone to the next.

Compl. Specn. 43 Pages. Drgs. 3 Sheets

CLASS : 29-A. 167723
Int. Cl : G 06 f 3/00

APPARATUS FOR READING A PLURALITY OF INPUT DATA BITS TRANSMITTED SERIALLY FROM A RESOURCE MEMORY.

Applicant : COMMODORE-AMIGA, INC., OF 983 UNIVERSITY AVENUE, LOS GATOS, CALIFORNIA 95030, U.S.A.

Inventor : GLENN JAY KELLER.

Application No. 555/Cal/1987 filed July 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

Apparatus for reading a plurality of input data bits transmitted serially from a resource memory, comprising :

means for detecting an input data bit, each of the plurality of data bits being detected during a corresponding one of a plurality of receive cycles;

means for generating a number that is changed by a non-zero nominal amount in response to the presence of a clock signal to identify each of a plurality of time periods of the receive cycle, including early and late time periods;

means coupled to the number generating means for generating a carry signal in response to the generated number reaching a predetermined amount during one of the time periods during each receive cycle;

means coupled to the detecting means and the number generating means for storing the generated number when a data bit is detected to identify the time period during which the data bit is detected, or for storing a plurality of generated numbers, each generated number being stored when each of a plurality of data bits is detected, to identify the time period during which each data bit is detected;

means coupled to the number storing means for generating a first phase control signal to advance the start/stop time of each receive cycle at times when the stored number indicates the data was detected during an early time period of the corresponding receive cycle;

means coupled to the number storing means for generating a second phase control signal to delay the start/stop time of each receive cycle at times when the stored number indicates the data bit was detected during a late time period of the corresponding receive cycle;

means coupled to the number generating means and the first phase control signal generating means for changing the generated number by an amount larger than the nominal amount and unequal to twice the nominal amount in response to the presence of the clock signal at times when the first phase control signal is present, to advance the start/stop time of each receive cycle :

means coupled to the number generating means and the second phase control signal generating means for changing the generated number by a non-zero amount smaller than the nominal amount in response to the presence of the clock signal at times when the second phase control signal is present, to delay the start/stop time of each receive cycle; and

data buffer means coupled to the detecting means and the carry signal generating means for storing the detected data bit in response to the presence of the carry signal, with or without :

means coupled to the number storing means for generating a first frequency control signal to shorten the duration of each receive cycle at times when the plurality of stored numbers indicates a plurality of data bits was detected during early time periods of the corresponding receive cycles;

means coupled to the number storing means for generating a second frequency control signal to lengthen the duration of each receive cycle at times when the plurality of stored numbers indicates a plurality of data bits was detected during late time periods of the corresponding receive cycles;

means coupled to the number generating means and the first frequency control signal generating means for changing the nominal amount in response to the presence of the first frequency control signal, to shorten the duration of each receive cycle; and

means coupled to the number generating means and the second frequency control aingal generating means for changing the nominal amount to a smaller amount in response to the presence of the second frequency control signal, to lengthen the duration of each receive cycle.

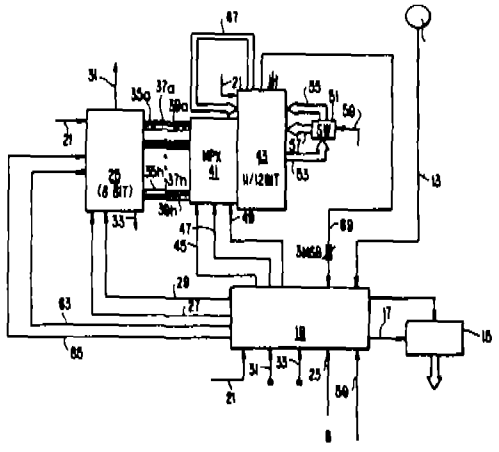


Fig. 1

Compl. Specn. 31 Pages. Drgs. 2 Sheets.

CLASS : 105-B. 167724
Int. Cl. : G 01 d 5/00; G 01 f 1/05, 1/66.

APPARATUS FOR CONTINUOUSLY MEASURING MASS FLOW.

Applicant : BABCOCK & WILCOX TRACY POWER, INC., OF 1409 FOULK ROAD, SUITE 102, P.O. BOX 7108, WILMINGTON, DELWARE 19803-0108, UNITED STATES OF AMERICA.

Inventor : DENNIS SAMUEL MIZERAK.

Application No. 579/Cal/1987 filed July 28, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

An apparatus for measuring mass flow of a fluid flow, comprising :

a pair of conduits each having opposite ends, as well as axis and a mid-point between said opposite ends;

support means connected to said conduits for holding said opposite ends at substantially fixed positions;

connector means connected to said support means for supplying a fluid flow whose mass flow rate is to be measured to said pair of conduits, each conduit receiving about one half of the fluid flow at one end of said support means and recombining said fluid flow at the other end of said support means;

drive means associated with said conduits for oscillating said conduits towards and away from each other at a selected frequency in a

direction transverse to their respective axis and substantially at their respective mid-point;

at least one sensor for sensing motion of said conduits at a sensing point spaced from each mid-point and from said opposite ends for sensing any phase difference of the selected frequency between said pair of conduits.

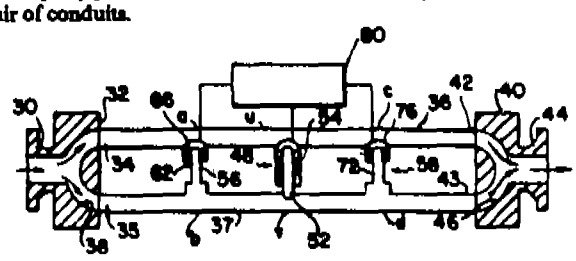


Fig. 3

Compl. Specn. 22 Pages. Drgs. 3 Sheets.

CLASS : 63-I 167725
Int. Cl. : H 02 h 9/00.

AN OVERCURRENT FAULT DETECTION SYSTEM FOR MULTIPHASE A.C. CURRENT CONTROL SYSTEM.

Applicant : BABCOCK & WILCOX TRACY POWER, INC., OF 1409 FOULK ROAD, SUITE 102, P. O. BOX 7108, WILMINGTON, DELWARE 19803-0108, U. S. A.

Inventors : (1) JOHN JAMES FRY, (2) EDWARD BASTIJANIC, (3) JOHN WALTER ROBERTSON, JR.

Application No. 662/Cal/1987 filed August 21, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

An overcurrent fault detection system for multiphase AC motor control systems, comprising :

a digital control means for controlling the motor controlling system by generating digital pulses;

a multiphase AC power generation assembly connected to said digital control means for generating multiphase AC power and outputting said power to a motor, said generation assembly including one overcurrent means for each individual phase of said multiphase power, such that, one individual phase may be disabled without disabling the remaining individual phases; and

a mechanical feedback means attached through a load to said motor for disabling the entire AC motor control systems through said digital control means when said motor stalls indicating a severe overcurrent condition in the motor control system.

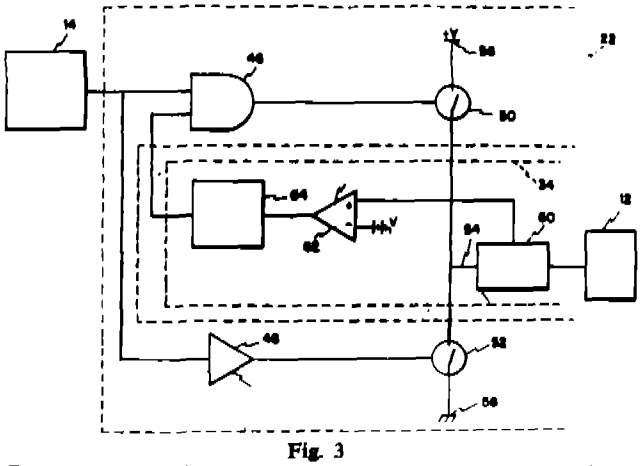


Fig. 3

Compl. Specn. 15 Sheets. Drg. 1 Sheet.

CLASS : 146-A. 167726
Int. Cl. : B 25 b 1/00; 1/10.

A VICE.

Applicant : ROLF PEDDINGHAUS, OF DETERBERGERSTRASSE 25, 5828 ENNEPETAL, WEST GERMANY.

Inventor : ROLF PEDDINGHAUS.

Application No. 843/Cal/1987 filed October 28, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A vice with a base a fixed clamping jaw firmly joined with the base body, a guide rail inserted in the base body, with a movable clamping jaw joined with the guide rail and a male screw drive, whereby the base body has a base body bridge with backward bridge edge comprehending the guide rail, and the guide rail projects at each opening gap between the fixed and the movable clamping jaw, wherein the guide raid (3) has a marking carrier (9), with markings (10) thereon corresponding to the gap of the opening (M) of the clamping jaws (2, 4) and the edge of the bridge has a reading edge (8) for the markings (10).

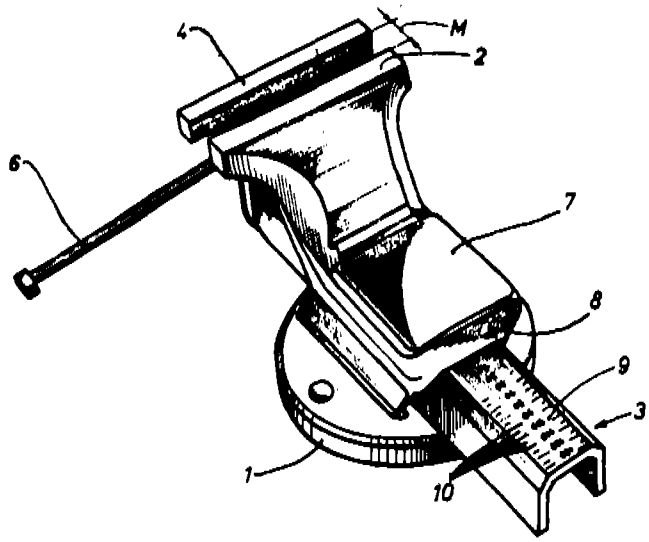


Fig. 1

Compl. Specn. 8 Pages. Drgs. 2 Sheets.

CLASS : 153. 167727
Int. Cl. : B 24 b 33/00.

TRUING DEVICE FOR HONES.

Applicant : KABUSHIKI KAISHA NISSHIN SEISAKUSHO, 22, AZA-CHITOSE, MINEYAMACHO, NAKAGUN, KYOTO PREFECTURE, JAPAN.

Inventors : (1) YOSHIO NAKAE, (2) AKIYO KINOSHITA, (3) KOICHI TANAKA.

Application No. 847/Cal/1987 filed October 29, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

A truing device for hones comprising a truing tool and a tool holding device for holding the truing tool,

said truing tool being provided with a penetrating hole to penetrate a honing tool,

at least a part of an inner peripheral surface of the penetrating hole being a cylindrical surface having the same diameter as that of honing working,

at least a part of said penetrating hole inner peripheral surface being provided with cutting edges for grinding hones,

a tool holder means being shakably held by a jig body of said tool holding device within a range of three dimentional minute angles,

the tool holder means being privided with a recessed insertion hole,

said truing tool being attachably and removably housed in the recessed insertion hole,

whereby said truing tool can smoothly follow movement of said honing tool during truing working.

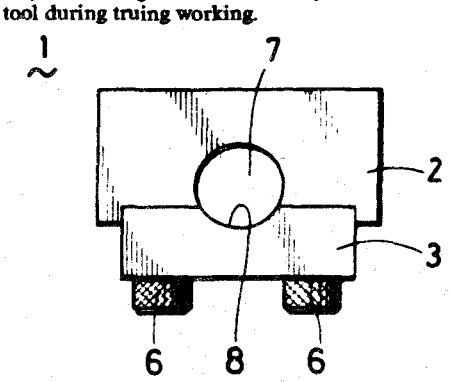


Fig. 1

Compl.Specn. 21 Pages. Drgs. 5 Sheets.

CLASS : 51-B. 167728
Int.Cl. : B 26 d 1/00.

RETRACTABLE BLADE KNIFE.

Applicant : MCPHERSON'S LIMITED, OF 525 COLLINS STREET, MELBOURNE, VICTORIA 3000, AUSTRALIA.

Inventors : (1) FRANK WINYARD, (2) GORDON BREMNER (3) CVETAN PETROFF.

Application No. 887/Cal/1987 filed November 11, 1987.

(Convention dated November 12, 1986; No. PH 8907, AUSTRALIA).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

24 Claims

A retractable blade knife including, a hollow handle, a blade opening at a front end of said handle, a blade carrier mounted within said handle for movement relative thereto, connecting means whereby a blade can be connected to and removed from said carrier, said carrier being movable between a rest position at which a blade connected to said carrier is contained within said handle and a forward position at which the said blade is projected through said opening beyond said handle front end, sharpener located within said handle adjacent said opening and being operable to engage the cutting edge of the said blade so as to sharpen that edge during movement of said blade through said opening, and sharpener release means which is selectively operable to render said sharpener inoperable.

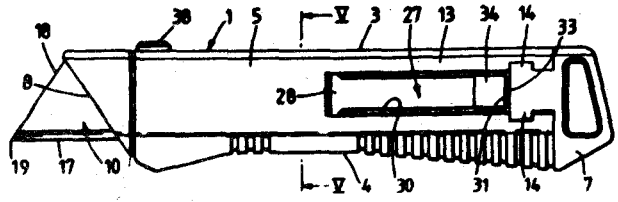


Fig. 1

Compl. Specn. 18 Pages. Drgs. 4 Sheets.

CLASS : 150-C. 167729
Int. Cl. : F 16 l 25/00.

IMPROVEMENTS IN OR RELATING TO CAST IRON DETACHABLE JOINTS FOR JOINING PIPES PARTICULARLY PRESSURE PIPES LIKE FIBRE CEMENT PIPES, CAST IRON PIPES AND THE LIKE.

Applicant : HYDERABAD INDUSTRIES LTD., SANAT NAGAR, HYDERABAD-500018, ANDHRA PRADESH, INDIA.

Inventor : NIMMAGADDA SUBBARAAO.

Application No. 984/Cal/1987 filed December 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A detachable joint for joining pipes such as fibre cement or cast iron or such similar pressure pipes comprising of cast iron flanges with suitable 'O' rings adapted to join together by means of member like bolts and nuts, each adapted to house one end of each of the two pipes such as pressure pipes which are to be joined and a collar adapted to be positioned over the two pipes to be joined characterized in that a fibre cement collar is positioned between said pair of cast iron flanges with 'O' rings, one each on either side of said pressure pipe and adapted to be engaged in a fluid tight manner between the ends of the said fibre cement collar and inner surfaces of the cast iron flanges with 'O' rings, the said fibre cement collar and the said pair of 'O' rings having the diameter adapted to engage the pipe ends.

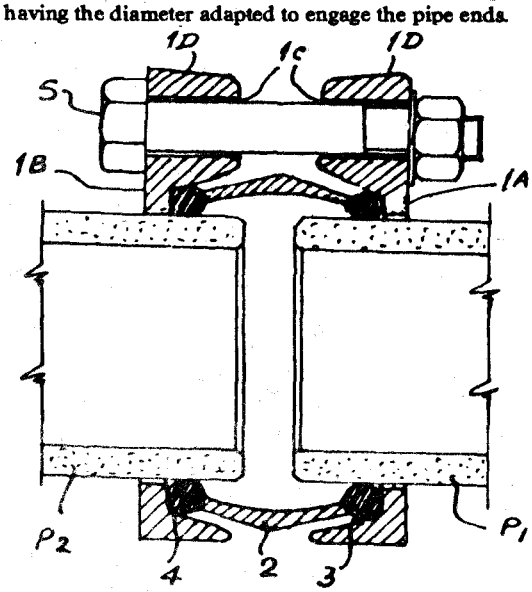


Fig. 3

Compl. Specn. 7 Pages. Drg. 1 Sheet.

CLASS : 104-K. 167730
Int. Cl. : B 01 j 2/00; C 08 c 4/00.

PROCESS FOR PREPARING RUBBER POWDER FROM NATURAL OR SYNTHETIC RUBBER.

Applicant : OPYTNO-EXPERIMENTALNY ZAVOD POLIMERNYKHIZDELY, OF PESCHANY KARIER, 15, MOSCOW, USSR.

Inventors : (1) NIKOLAI SERGEEVICH ENIKOLOPOV, (2) VALERY VASILIEVICH MALYSHEV, (3) AGRY VYACHESLAVOVICH BIBICHEV, (4) PAVEL PETROVICH SHERSTNEV, (5) ANATOLY ISAAKOVICH NEPOMNYASCHY, (6) LIDIA ALEXANDROVNA FILMAKOVA.

Application No. 983/Cal/1987 filed December 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

1 Claim

A process for preparing a rubber powder from natural or synthetic rubber in a screw-and-cam comminutor, residing in that natural or synthetic rubber is squeezed in the screw zone of the comminutor to a value ranging from 0.2 to 0.7 MPa with subsequent comminution of the squeezed material by subjecting it to the simultaneous action of a pressure ranging from 0.2 to 50 MPa and a shear stress ranging from 0.03 to 5 N/mm² in the cam zone of the comminutor, charcterized in that the comminution is carried out under isothermal conditions with temperature fluctuations over the length of the cam zone of the comminutor equal to (1.05-0.95)t, where t is the temperature in the middle portion of the cam zone of the comminutor, equal to 60-180°C.

Compl. Specn. 11 Pages. Drg. Nil.

Ind. Cl. : 32 B. 167731
Int. Cl.⁴ : C10G 35/04.

INTEGRATED PROCESS AND APPARATUS FOR THE PRIMARY AND SECONDARY CATALYTIC STEAM REFORMING OF HYDROCARBONS.

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED AND EXITING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA WITH OFFICES AT 39 OLD RIDGEBURY ROAD, DENBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventor : ANDRIJA FUDERER.

Application for Patent No. 18/Del/87 filed on 8th January 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

33 Claims

An integrated, essentially autothermal, catalytic process for the primary and secondary reforming of fluid hydrocarbons such as herein described comprising :

(a) catalytically reacting a fluid hydrocarbon feed stream obtained from fluid hydrocarbons with steam in catalyst-containing reformer zone located within an integrated primary-secondary refomer, said primary reforming zone being maintained at an elevated temperature of 900°C to 1000°C by a passage of hot product effluent from a secondary reforming zone of said reformer to said primary reforming zone;

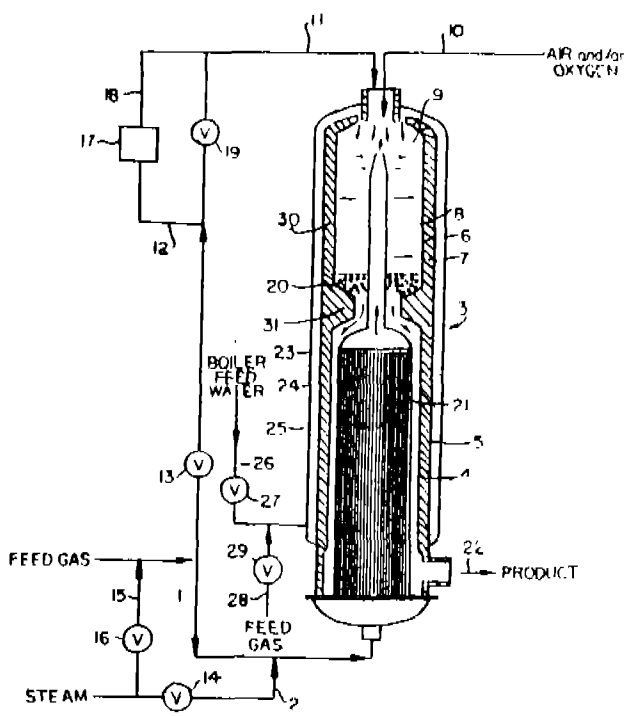
(b) passing the partly reformed product effluent obtained from said primary reforming zone to the catalyst-free reaction space at the feed end of the catalyst bed in the secondary reforming zone;

(c) introducing an oxygen-containing gas to said catalyst-free reaction space in the secondary reforming zone of said integrated reformer, exothermically reacting said oxygen with unconverted fluid hydrogen feed and hydrogen causing the temperature of the reaction mixture in said reaction space to rise to above 930°C;

(d) passing the reaction mixture from said reaction space to the secondary reforming catalyst bed, unconverted hydrocarbon feed present in said reaction mixture reacting with steam in an endothermic reaction during the passage of the reaction mixture through said catalyst bed so as to reduce the temperature of the reaction mixture from the temperature reached in said catalyst-free reaction space to a lower temperature;

(e) introducing the secondary reforming product effluent gas from the secondary reforming catalyst bed to the shell side of the primary reforming zone to supply heat of from 900°C to 1000°C for the endothermic steam reforming reaction to take place within the said primary reforming zone; and

(f) discharging cooled effluent from the shell side of said primary reforming zone as the poduct effluent of said integrated primary-secondary reformer, whereby the desired overall primary and secondary reforming of the fluid hydrocarbon feed is accomplished with essentially all of the heat required in the primary reforming zone being supplied by the product effluent of the secondary reforming zone so that the need for an external fuel-fired primary reformer and/or for the burning of a portion of the hydrocarbon feed for fuel purposes is essentially eliminated.



Compl. Specn. 38 Pages. Drg. 1 Sheet.

Ind. Cl. : 107C XLXI (2). 167732
Int. Cl.[4] : F 02 B 41/00.

LAMINAR HEAT SHIELD FOR THE HEAT INSULATION OF DUCT, PIPE-AND TANK-WALLS.

Applicant : A 4 GM ENERGETIKAI GEPGYARTO LEANYVALLALAT, OF H-1177 BUDAPEST, XI BUDAFOKI UT 70, HUNGARY.

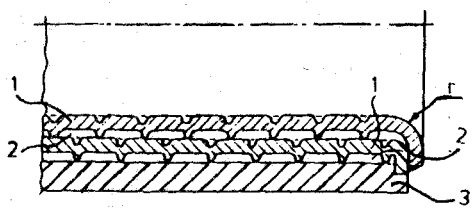
Inventor : PAL LOSONCI.

Application for Patent No. 46/Del/89 filed on 22 Jan., 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

10 Claims

Laminar heat shield for the heat insulation of duct, pipe-and tank-walls; particularly for the heat insulation of ducts conveying the combustion products of internal combustion engines, which consists of at least one plate element surrounding the duct-wall and at least one heat insulating layer uni-axial with the trace of the duct to be heat insulated, forming essentially closed space(s) filled with slack air, gas or other heat insulating material, characterised in that at least one wall of heat insulating layer, especially that of the air gap (2) of the heat shield applied to the inner wall of the duct to be heat insulated, consists of spiked plate(s) (1, 7, 9, 10) preformed to spatial configurations fitting inside to the existing duct-wall (3) to be heat insulated, provided with spike(s) protrudingat least on one side from the plate surface.



Compl. Specn. 16 Pages. Drgs. 3 Sheets.

Ind. Cl. : 15 C LIV (1). 167733
Int. Cl.[4] : F 16 C 13/02, 13/04.

A BEARING.

Applicant : RELIANCE ELECTRICAL COMPANY, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF P.O. BOX 499, GREENVILLE, SOUTH CAROLINA 29602, UNITED STATES OF AMERICA.

Inventors : HOOSHANG HESHMAT & PAUL THOMAS GORSKI.

Application for Patent No. 103/Del/87 filed on 10th February 1987.

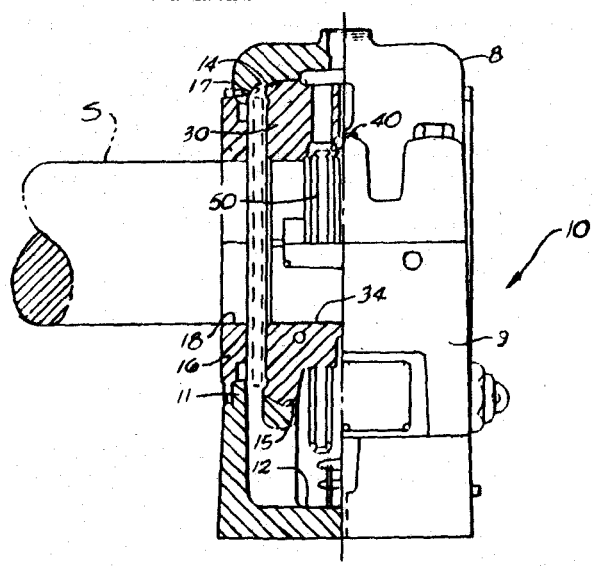
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

24 Claims

A bearing comprising :

(a) a housing, (10) said housing (10) having a shaft receiving opening (18) therethrough;

(b) a liner (30) received within said housing (10) and having a shaft receiving bore opening (32) therethrough, said liner (30) having an enlarged annulus (33) at opposite ends of said bore opening, (32) said liner (30) also having at least one lubricant delivery groove (35) in communication with said bore opening (32) and extending axially therealong, said at least one lubricant delivery groove (35) having flow restrictor means (36) at opposite ends thereof, said bore opening (32) having a length to diameter ratio of from 0.87 to 0.92, whereby said bearing will rotatingly support a shaft (5) extending therethrough at various loads while experiencing low power losses under flooded or starved lubricant conditions.



Compl. Specn. 23 Pages. Drgs. 8 Sheets.

Ind. Cl. : 35 B. 167734
Int. Cl.[4] : C 04 B 35/10.

AN IMPROVED PROCESS FOR THE PRODUCTION OF HIGH ALUMINA CEMENT CLINKERS AND THE LIKE CONTAINING ALUMINA RANGING FROM 45 TO 80 PER CENT.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 005, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ABDUS SALIM, RAM NARAYAN SINHA, SITAL PRASAD BANERJEE, GAUTAM BANERJEE AND SACHCHIDANANDA KUMAR.

Application for Patent No. 253/Del/87 filed on 24th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

15 Claims

An improved process for the production of high alumina cement clinkers and the like containing alumina ranging from 45% to 80% which comprises blending (a) a mixture of calcium bearing minerals having (i) alumina ranging from 0.00 to 1.50% by wt (ii) silica ranging from 0.01 to 0.50% by wt (iii) iron oxide ranging from 0.01 to 0.50% by wt. (iv) titania TiO_2 ranging from 0.00 to 0.50% by wt (v) lime CaO, 50% by wt. (vi) magnesium MgO ranging from trace to 2.00 by wt. (vii) alkali oxides ranging from traces to 0.50% by wt, and loss on ignition ranging from 34-44% be wt, and refractoriness, (when measured as per ISI, standard specification) above orton cone 42 and (b) an aluminous material having (i) alumina content ranging from 56.00 to 99.50% by wt (ii) silica ranging from 0.01 to 5.05% by wt (iii) iron oxide ranging from 0.01 to 2.50% by wt. (iv) titania TiO_2 ranging from 0.00 to 9.00% by wt (v) calcium oxide upto 1.70% by wt (vi) magnesium oxide ranging from 0.00 to 1.2% by wt (vii) alkali oxides ranging from 0.00 to 1% by wt, and loss on ignition ranging from 0.00 to 36.00% by wt and having refractoriness (when measured as per ISI, standard specification) above orton cone 42 with or without adding equimolecular mixture of alkaline earth halides, grinding the mixture in the presence of alumina ceramic grinding media lubricating and dispensing media such as herein described dewatering the slurry, drying the dewatered slurry, adding molasses, starch, flour or PVA or mixtures thereof and forming cakes, extruding the said ground mixture in the form of hollow wares under vacuum cum pressure injecting machine drying the hollow wares in air, firing the green compacted hollow wares in kilns capable of reaching the temperature of 1300-1450°C so that the flue gases easily pass through inside the hollow wares in order to be able to get maximum heat energy and sintering cooling the sintered product and crushing grinding, demagnetising sieving and ill milling to ultimate fine powders below 170 mesh BSS or finer.

Compl. Specn. 32 Pages. Drg. Nil.

Ind. Cl. : 32-C, 77-C. 167735
Int. Cl.[4] : C 11 C 3/04.

A PROCESS FOR THE PRODUCTION OF DERIVATIVES OF NATURAL FATS AND OILS.

Applicant : CHEMISCHE FABRIK STOCKHAUSEN GMBH., OF BAKERPFAD 25, D-4150 CREFELD, FEDERAL REPUBLIC OF GERMANY.

Inventors : HELMUT BREHM, HELMUT KLIMMEK & DOLF STOCKHAUSEN.

Application for Patent No. 433/Del/87 filed on 19th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

9 Claims

A process for the production of salfitied as sulphonated derivatives of conventionally known natural fats and oils that are liquid or free-flowing at room temperature which comprises oxalkylating fats that are solid at room temperature or mixtures of these with free fatty acids, mono-and/or diglycerides, with at least one 1, 2-epoxide at a temperature of 120-200°C in the presence of basic catalysts of the kind such as herein described and sulphonating the product so obtained, in any known manner to produce said derivatives.

Compl. Specn. 19 Pages. Drg. Nil.

Ind. Cl. : 139 D. 167736
Int. Cl.[4] : C 01 B 3/00.

PROCESS FOR THE PRODUCTION OF A HYDROGEN CONTAINING GAS STREAM.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3 JF, ENGLAND.

Inventors : ALWYN PINTO AND IAN CHARLES JEFFERY.

Application for Patent No. 746/Del/86 filed on 19th August, 1986.
Convention date August 30, 1985/8521649/(U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

A process for the production of a hydrogen containing gas stream comprising subjecting a raw gas containing steam, carbon dioxide, hydrogen, and carbon monoxide, and having a carbon monoxide content of 8% to 65% by volume on a dry basis, to the catalytic shift reaction at superatmospheric pressure and elevated temperature in a single stage in the presence of a catalyst containing copper metal and at least one oxidic support material in indirect heat exchange with a coolant whereby to reduce the carbon monoxide content to less than 1% by volume on a dry basis, characterised in that

(a) the process is carried out at an outlet temperature in the range 230 to 280°C,

(b) the catalyst bed is equipped with heat exchange tubes and/or plates providing 30 to 200m^2 of heat exchange surface contacted by the gas stream within the catalyst bed per m^3 of catalyst and the coolant on the cold side of such tubes and/or plates is boiling water, and

(c) the gas flow rate through the catalyst is in the range 200 to 800 kg mol per hour per m^3 of catalyst.

Compl. Specn. 14 Pages. Drg. Nil.

Ind. Cl : 182BXVII.
Int. Cl[4] : C 13 K 5/00.

A PROCESS FOR REDUCING THE CONTENT OF LACTOSE IN PRODUCTS CONAINING LACTOSE LIKE MILK.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SANTHOOR GURURAJA BHAT, MAHESH SAMBAT JOSHI & LALITHA RAMAKRISHNA GOWDA.

Application for Patent No. 817/Del/87, filed on 18 September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-5.

4 Claims

A process for reducing the content of lactose in lactose containing products like milk, whey and other dairy products as herein described which comprises reacting the said product with a galatosidase enzyme prepared by a process described and claimed in our copending application No. 818/Del/87.

Compl. Specn. 10 Pages. Drg. Nil.

Ind. Cl. : 32.C [IX(1)]. 167738
Int. Cl. : C 12 N 9/24.

A PROCESS FOR THE PREPARATION OF AN ENZYME β-GALACTOSIDASE USEFUL FOR REDUCING THE CONTENT OF LACTOSE IN LACTOSE CONTAINING PRODUCTS LIKE MILK, WHEY AND OTHER DAIRY PRODUCTS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

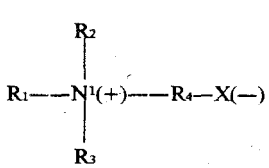
Inventors : SANTHOOR GURURAJA BHAT, MAHESH SAMBAT JOSHI & LALITHA RAMAKRISHNA GOWDA.

Application for Patent No. 818/Del/87 filed on 18 September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

A process for the preparation of an enzyme β-galactosidase useful for the reduction of the content of lactose in lactose containing dairy products which compises growing micro organisms containing the enzyme β-galactosidase in a nutrient medium such as herein described suspending the micro organisms in a buffer solution containing a compound belonging to the class of quaternary ammonium salts selected from the general formula



wherein R_1 represents alkyl group containing 12 to 18 carbon atoms and R_2, R_3 and R_4 represent also alkyl groups which may be same or different and having 1 to 4 carbon atoms or R_2, R_3 and R_4 together with the Nitrogen forming a hetrocyclic ring and X represents Chlorine, Bromine or Iodine atom, at a temperature in the range of 3-40°C and for a period of 5-60 minutes, the concentration of quaternary ammonium salt being in the range of 0.05-1% (w/v), and the pH being in the range of 6.0-7.5, then washing repeatedly the resultant suspension with a buffer solution to free from them quaternary ammonium salt.

Compl. Specn. 13 Pages. Drg. Nil.

Ind. Cl. : 194B [LXIII (4)]. 167739
Int. Cl.[4] : H 01 J 29/00.

A DEVICE FOR THE MANUFACTURE OF BASES FOR VACUUM TUBES.

Applicant : VIDEOCOLOR, A FRENCH COMPANY, OF 7, BOULEVARD ROMAIN ROLLAND, 92128, MONTROUGE, FRANCE.

Inventor : ALAIN PROST.

Application for Patent No. 872/Del/86 filed on 1st October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

4 Claims

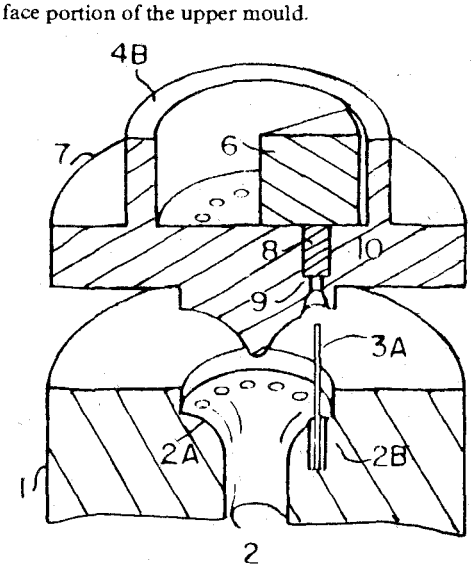
A device for the manufacture of bases for vacuum tubes, comprising :

a lower mould having a plurality of through holes formed therein for housing a plurality of conductors (3A, 3B, 3C) of a desired length which extend through the bases :

an upper mould (7) having a plurality of holes (5) formed therein for the conductors to extend into, corresponding to the through holes of the lower mould (4) said upper mould having bores (8) formed therein coaxially with said holes of the upper mould;

a plurality of spacers (10, 11, 12) respectively located in said bores for positioning of said plurality of conductors, respectively so as to compensate for a length dimension of each of said conductors for proper positioning of each of said conductors in each of said through holes; and

a plurality of individual weights (6) equal in number to the conductors and disposed on the spacers above an upper surface portion of the upper mould.



Compl. Specn. 9 Pages. Drgs. 2 Sheets.

Ind. Cl. : 55 E 1. 167740
Int. Cl.[4] : A 61 K-31/16 37/02.

A PROCESS FOR THE PREPARATION OF AN ANTISERUM HIGHLY SPECIFIC TO ESTRADIOL.

Applicant : COUNCIL OF SCIENTIFIC & RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : CHITRA MANDAL & NAHID ALI LATIF.

Application for the Patent No. 986/Del/87 filed on 17th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

9 Claims

A process for the preparation of an antiserum which is highly specific to estradiol and is useful as a reagent in diagnostic kits which comprises preparing an estradiol-Bovine Serum albumin (BSA) conjugate by adding dicyclohexyl carbodimide and N-hydroxy succinimide in dimethyl formamide solution to estradiol-3-carboxymethyl ether adding Bovine Serum albumin to the solution thus obtained to form a conjugate, treating the conjugate in neutral liposomes with egg lecithin and cholestrol to form a lipid film, sonicating in an ultrasonicator the lipid film so formed, separating by ultrafiltration the free conjugate, obtaining the estradiol anti sera by treating the blood obtained from mice with the above said lipid, incubating the said anti sera partially purifying the incubated sera by precipitation with ammonium sulfate solution, dissolving the resultant precipitate in Phosphate Buffer Saline and passing through a column of Bovine Serum albumin embedded resin such as herein described to get the anti serum as the eluate.

Compl. Specn. Drg. Nil.

Ind. Cl. : 145-E3-[GROUP-XXIV (4)] 167741
Int Cl.[4] : D 21 C 9/10.

A PROCESS FOR PREPARING IMPROVED WOOD PULP.

Applicant : REPLIGEN CORPORATION, OF ONE KENDALL SQUARE, BUILDING 700, CAMBRIDGE, MASSACHUSETTS 02139, UNITED STATES OF AMERICA, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventor : FARRELL ROBERTA.

Application No. 531/Mas/86 filed July 11, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

2 Claims

A process for preparing improved wood pulp which comprises treating said pulp wih a ligninolytic mixture from a phanerochaete chrysosporium fermentation, consisting essentially of lignin degrading enzyme designated rLDM™ enzymes wherein said phanerochaete chrysosporium is the novel mutant strain designated SC 26, having the identifying characteristics of NRRL 15978.

Comp. Specn. 21 Pages. Drg nil

Ind. Cl. : 32 C [GROUP IX (1)] 167742
Int. Cl.[4] : C 12 N 9/00.

A METHOD OF PRODUCING A LIGNIN-DEGRADING ENZYME (DESIGNATED AS rLDM™).

Applicants : REPLIGEN CORPORATION OF ONE KENDALL SQUARE BUILDING 700, CAMBRIDGE, MASSACHUSETTS 02139 USA, A CORPORATION OF THE STATE OF DELAWARE, U.S.A. AND UNITED STATES OF AMERICA AS REPRESENTATED BY THE SECRETARY OF AGRICULTURE THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON D C 20250, U.S.A.

Inventors : ROBERTA FARRELL THOMAS KIRK MING TIEN.

Application No. 532/Mas/86 filed on 11th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A method of producing a lignin-degrading enzyme (designated as rLDM™) substantially free of proteases, with the following characteristics : (a) catalyses the oxidation of veratryl alcohol to veratryl aldehyde; (b) has a molecular weight in the range 38 to 43 kilodaltons as determined by SDS—polyacrylamide gel electrophoresis; (c) contains a single protoheme IX moiety; (d) has a defined homology by antibody reactivity; (e) shows a specificity of activity against lignin model substrates; and (f) is eluted from a FPLC column at specified sodium acetate molarities; the said method comprises oulturing a biologically pure mutant culture of Phanerochaete chyrsosporium, designated mutant SC 26 and having the culture deposit number NRRL 15978, in a nitrogen—limited trace element medium supplemented with glucose and buffered at pH 4.5 and separating the lignin-degrading enzyme (rLDM™) from the medium in a known manner.

Compl. Specn. 17 Pages. Drg. Nil.

Ind. Cl. : 94 C [GROUP XXXIV (2)]. 167743
Int. Cl.[4] : B 02 C 7/00.

DISC MILL.

Applicant : NAUCHNO IZSLEDOVATELSKI INSTITUT PO CHERNA METALURGIA, BOTUNETZ, 1770 SOFIA, BULGARIA, A SCIENTIFIC INSTITUTE ORGANIZED UNDER THE LAWS OF BULGARIA.

Inventor : IVAN VASILEV GENEV.

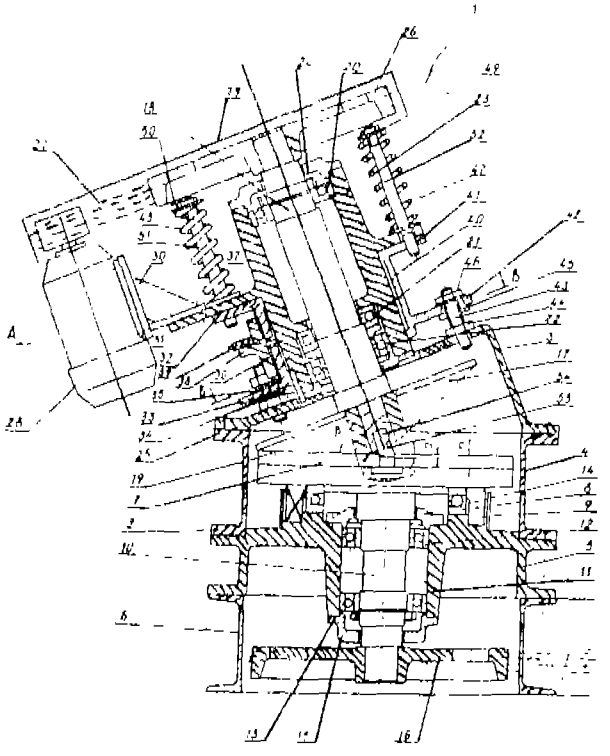
Application No. 535/Mas/86 filed on 14th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

Disc mill comprising a mill housing (2) with a milling disc (7) connected to a rotary drive (16) an adjustably mounted milling cone (17) in a bearing housing (23) and connected to a rotary drive (26, 27, 28); a flange (31) provided on the bearing housing (23) and is displaceable

on stay bolt (51) extending through openings in the said flange (31); a spring (48) provided between the flange (31) and spring stop (50),; and upper flange body (32) surrounding the bearing housing (23), with an external thread (37), to which the stay bolts (51) are fixed pressing the flange (31) of the bearing housing (23) by the action of the spring (48); a lower flange body (33) surrounding the bearing housing (23), fixed on an upper housing portion (3) of the mill housing (2), and is connected through an adjusting spring element (35) with the bearing housing (23), the said spring element (35) is axially displaceable but not rotatable; the said lower flange body (33) is provided with external thread (36) which runs in opposition to the external thread (37) of the upper flange body (32); and adjusting nut (38) which is in threaded engagement with the external threads (37, 36) of the upper and lower flange bodies (32, 33) and supports a toothed ring (39) on its outer side for engaging with an adjusting and fixing gear unit.



Compl. Specn. 15 Pages Drgs. 3 Sheets.

Ind. Cl. : 186-A-[GROUP-LXI (1)] 167744
Int. Cl.[4] : H 03 H 17/00.

INTERPOLATOR/DECIMATOR FILTER STRUCTURE.

Applicant : PLESSEY OVERSEAS LIMITED, A BRITISH COMPANY, OF VICARAGE LANE, ILFORD, ESSEX, ENGLAND.

Inventor : NIGEL PAUL DYER.

Application No 560/Mas/86 filed July 18, 1986.

Convention date : 28th August, 1985; (No. 8521377; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

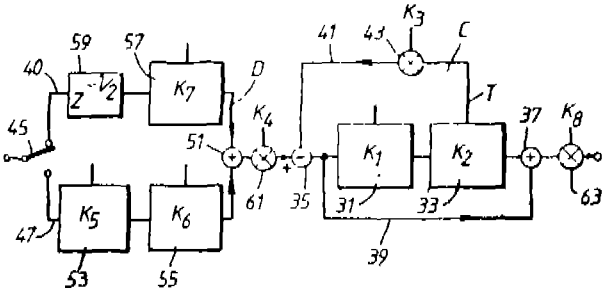
5 Claims

An interpolator or decimator filter structure, operable between a lower and a higher sampling rate, comprising an interpolating or decimating switched branched network, comprising one or more all-pass-network filters; and, connected in a series therewith, a notch filter, this filter having a transmission zero at a frequency displaced from a frequency of one half of the lower sampling rate, and being comprised of a plurality of all-pass-network filters;

each all-pass-network filter having a delay element and at least one coefficient multiplier and having as charecteristic a transform function $X(Z)$ of the form :—

$$X(Z) = [Z^{-1} - K] / [1 - KZ^{-1}]$$

where Z^{-1} is the unit delay operator and K the multiplier coefficient.



Compl. Specn. 14 Pages. Drgs. 3 Sheets.

Ind. Cl. : 186 A [GROUP LXI (1)]. 167745
Int. Cl.[4] : H 03 H 17/04.

INTERPOLATOR OR DECIMATOR FILTER STRUCTURE.

Applicant : PLESSEY OVERSEAS LIMITED, VICARAGE LANE, ILFORD, ESSEX, ENGLAND, A BRITISH COMPANY.

Inventor : NIGEL PAUL DYER.

Application No. 561/Mas/86 filed on 18th July, 1986.

Convention dated 28th August 1985 No. 8521367 (Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

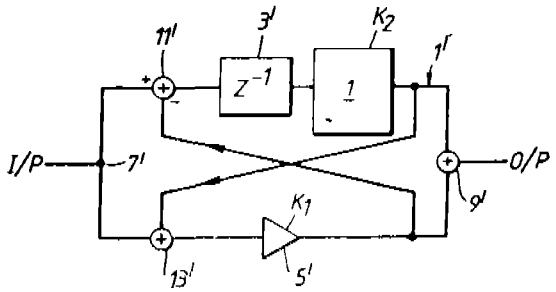
4 Claims

An interpolator or decimator filter structure, operable between a lower and higher sampling rate, comprising a pair of signal processing branches each of which is divided into a low frequency section and a high frequency section by a corresponding sampling switch, wherein the high-frequency section of one branch has a nested all-pass-network recursive digital filter, this digital filter being comprised essentially of :

a first recursive filter, having a first coefficient multiplier; and

a second recursive filter, having a second coefficient multiplier, this second filter being nested within the first recursive filter, wherein,

the coefficient of the second coefficient multiplier having a predetermined value which makes 3dB attenuation to occur at a frequency offset from one-half of the lower sampling rate.



Compl. Specn. 14 Pages. Drgs. 3 Sheets

Ind. Cl. : 155-B-[GROUP-XXIII]. 167746
Int. Cl.[4] : A 47 G 27/00.

A METHOD OF MANUFACTURING POLYMER BASED BRUSH MATS OF WOVEN TYPE AND NON-WOVEN TYPE SIMULTANEOUSLY.

Applicants & Inventors : (1) KADAVIL MATHEW ANTONY & (2) MATHEW ANTONY, KADAVIL HOUSE, RUBY NAGAR, P.O. CHENGANACHERY-686 103, KERALA STATE, INDIA, BOTH OF INDIAN NATIONALITY.

Application No. 588/Mas/86 filed July 22, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A method of manufacturing polymer based brush mats of woven type and non-woven type simultaneously comprising the steps of :

(i) introducing metal cores (1) in between two wefts in a conventional loom used in weaving fibre yarns the metal cores being flat with a channel (3) along the length and two thickened ends (2) with a projection along the thickness of the flat, the distance between the thickened ends being the desired width of the mat;

(ii) stacking the cores with the flat surface of each core in close contact with the projected portion of the next core, the number of cores deciding the desired length of the mat;

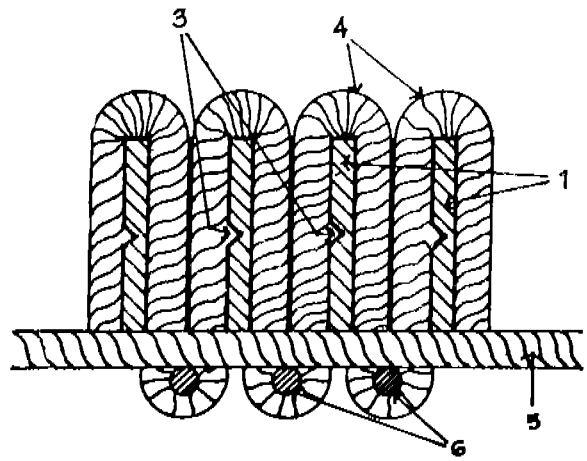
(iii) covering the assembled cores with a known compounded polymer sheet of desired thickness, length and width;

(iv) holding the assembled cores covered with compounded polymer sheet in between two metal plates;

(v) applying pressure to the metal plates by placing it between the heated plates of a press till the compounded polymer is hardened;

(vi) removing the assembly from the press after releasing the pressure;

(vii) taking out the cores by cutting the fibre by running a knife along the channel on the core to get two brush mats one being woven type and the other being non-woven type.



Compl. Specn. 7 Pages. Drg. 1 Sheet

Ind. Cl. : 97-D-[GROUP-LIX(2)] 167747
Int. Cl.[4] : A 47 J 27/086.

A COOKING VESSEL.

Applicant : ALFA INSTITUT FUR HAUSWIRTSCHAFTLICHE PRODUKT-UND VERFAHRENS-ENTWICKLUNG GmbH, OF ALBRECHSTRASSE 4, 6228, ELTVILLE AM RHEIN 2, GERMANY, A GERMAN COMPANY.

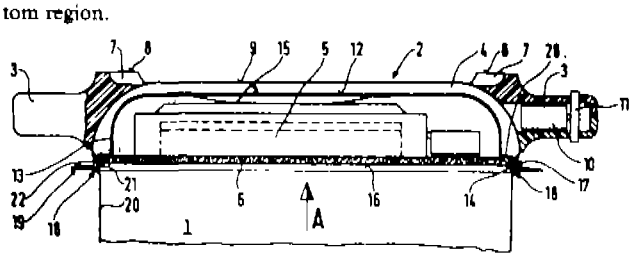
Inventor : HORST SCHULTZ.

Application No. 636/Mas/86 filed August 6, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims

A cooking vessel comprising a container (1) having the shape of a pot or bowl or pan, a cover (2) for covering the opening of said container (1) at least on handle (3) an electric heat source (5) such as, for example, a lamp of a grilling element installed in the interior space (4) of the said cover (2) and covered on its side facing the interior of the container, with a glass-ceramic plate (6) which is transparent to the radiation emitted by the heat source (5), the cover (2) is provided with a peripheral edge (17) projecting beyond the outskirt of the glass-ceramic plate (6) the said peripheral edge (17) is adapted to fit into a peripheral groove (18) in the wall (19) of the container (1), the said peripheral edge groove (18) being located radially outside of the wall (20) of the container (1), and the internal diameter of the recessed space defined by the circular peripheral edge (17) of the cover (1) is slightly larger than the external diameter of the container (1) in its bottom region.



Compl. Specn. 15 Pages. Drgs. 2 Sheets.

Ind. Cl. : 39-E-[GROUP-III]; 108 C (3) [XXXIII(5)] 167748
Int. Cl.[4] : C 21 C 1/02.

A COMPOSITION FOR DESULFURIZING METAL MELTS AND PROCESS FOR MAKING THE SAME.

Applicant : HOECHST AKTIENGESELLSCHAFT, D 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY, CHEMICAL MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) HERMANN SCHRODTER, (2) ALBERT BRAUN, (3) FRIEDRICH-WILHELM KAMPMANN.

Application No. 721/Mas/86 filed on September 8, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A composition for desulfurizing metal melts comprises :

32 to 89 wgt% calcium carbide

5 to 66 wgt% calcium oxide

0.1 to 45 wgt% alkaline earth metal carbonate

0.1 to 10 wgt% aluminium oxide

0.1 to 10 wgt% (chemically unbonded carbon and

0.3 to 4.5 wgt% calcium fluoride having a particle size of 0.1 to 50mm.

Compl. Specn. 10 Pages. Drg. Nil.

Ind. Cl. : 83-A1&3-[GROUP-XIV(5)] 167749
Int. Cl.[4] : A 23 L 1/42.

A PROCESS FOR PREPARING PRECOOKED PAELLA.

Applicant & Inventor : JUAN ANTONIO SEGURA CASTANO, A SPANIARD, OF URBANIZACION, CASAMPONS NO. 101, 08600-BERGA (BARCELONA), SPAIN.

Application No. 509/Mas/88 filed on July 19, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for preparing precooked paella which comprises heating a mixture of smashed tomato, vegetable oil, table salt, ground garlic, smashed onion, sweet coloured paprika, sugar, ground black pepper, and an assortment of saffron, parsely, almond, hazelnuts and pine nuts in a low flame until a thick sauce is formed, mixing the sauce thus prepared with rice and heated in oil till all the sauce and oil are absorbed by the rice, adding saffron based colouring agents, meat dehydrates, seafood dehydrates, fish dehydrates and green dehydrates according to the flavour desired, cooling the product obtained, adding greens, fried meat, fried seafoods, and fresh eustaces to taste and packing under deep freezing or vacuum wherein per kilogram of product contains 450 to 700 grams rice, 250 to 510 grams of sauce, 25 to 50 grams of dehydrates and 25 to 50 grams of vegetable oil.

Compl. Specn. 6 Pages. Drg. Nil.

Ind. Cl. : 116-G-[GROUP-XLIX] 167750
Int. Cl.[4] : B 60 P 1/60.

A SYSTEM FOR PROVIDING INFORMATION OF THE WEIGHT OF A LOAD CARRIED BY A TRUCK BODY WHICH IS PIVOTALLY MOUNTED ON A TRUCK FRAME.

Applicants & Inventors : LeROY GI, HAGENBUCH, A CITIZEN OF THE UNITED STATES OF 4602, N. ROSEMEAD, PEORIA, ILLINOIS 61604, COUNTY OF PEORIA, STATE OF ILLINOIS, U.S.A..

Application No. 673/Mas/88 filed on September 27, 1988.

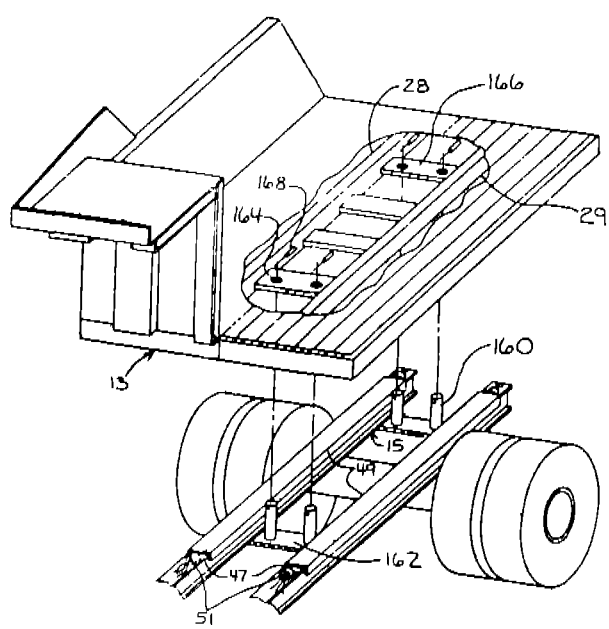
Divisional to Patent No. 164712 (296/Mas/85); (Ante-dated to 18th April, 1985).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A system for providing information of the weight of a load carried by a truck body which is pivotally mounted on a truck frame, comprising :

a truck frame with a hinge assembly; a truck body pivotally mounted to said truck frame at said hinge assembly said truck body being pivotally movable on said frame between a lowered position and a raised position; a substantial length of the surface of said truck frame serving as a support surface for said truck body in its lowered position; at least one fluid-filled tubing assembly mounted on said substantial length of the surface of said truck frame and forming a continuous interface between said substantial length and a mating portion of said truck body, thereby transferring at least a portion of the weight of said truck body to said frame in a substantially even and continuous distribution along said substantial length; and a pressure sensor assembly in communication with the fluid in said at least one fluid filled tubing for providing a pressure measurement indicative of the weight of the truck body and its load transferred to said frame along said interface



Compl. Specn. 104 Pages. Drgs. 28 Sheets.

Ind. Cl. : 40 A₂ 167751
Int. Cl. : B 01 J 10/00.

HYDROTREATING REACTOR FOR HYDROTREATING HYDROCARBONS.

Applicant : THE M. W. KELLOGG COMPANY, DELAWARE CORPORATION, OF THREE GREENWAY PLAZA, HOUSTON, TAXAS, 77046 UNITED STATES OF AMERICA.

Inventors : ROBERT BRYAN ARMSTRONG, HUIBERT SYBRANDUS JONGENBURGER & PASUPATI SADHUKHAN.

Application for Patent No. 165/Del/86 filed on 25th February, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

7 Claims

A hydrotreating reactor for hydrotreating hydrocarbons comprising :

(a) a vertical preasure vessel having a cylindrical (21) shell and top (22) and bottom (23) heads contiguous with the cylindrical shell;

(b) gas inlet (24) disposed axially in the vessel proximate the top thereof; bottom thereof;

(c) gas output (25) disposed in the vessel proximate the top thereof;

(d) oil feed (24) inlet disposed in the vessel;

(e) a plurality (26) of vertically spaced clear oil outlet means, each of the clear outlet means comprising a clear oil oultlet disposed in the cylindrical and an annular, internal hooded (29) baffle contiguous with the cylindrical shell at a point proximately above the clear oil outlet and extending downwardly below the clear oil outlet and away from the cylindrical shell to form an annular (30) stilling chamber with the cylindrical shell; the stilling chamber having an inlet (31) with a cross-sectional area between 6 and 60 percent of the cross-sectional area of the cylindrical shell;

(f) a plurality (32) of vertically spaced contacting stages, each of the contacting stages comprising a frusto-conical (32) baffle disposed axially within the cylindrical (21) shell and spaced adjacently from at least one of the annular, internal, hooded baffles (29) to form an intermediate annulus, the frusto-conical baffle (32) having a bottom inlet (33) and a top outlet, the bottom inlet having a cross-sectional area greater than that of the top outlet and wherein the top outlet of a lower frusto-conical baffle is proximate to the bottom inlet of the next higher frusto-conical baffle; and

(g) slurry oil (28) outlet disposed in the vassel proximate the bottom thereof and external to a frusto-conical baffle.

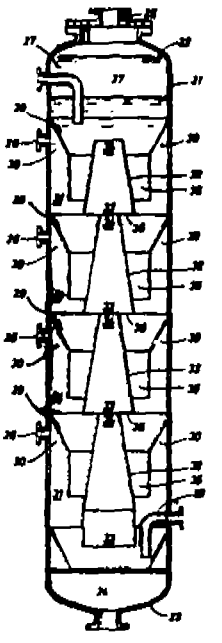


Fig. 2

Compl. Specn. 11 Pages. Drgs. 2 Sheets.

Ind. Cl. : 134A. 167752
Int. Cl.⁴ : B 60 R 27/00.

TWO WHEELER VEHICLE HAVING A DEVICE FOR LOCKING IN PARTICULAR A CRASH HELMET, OR ANY ARTICLE HAVING LIKE DIMENSIONS OF A CRASH HELMET.

Applicant : PIAGGIO & C.S.P.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECHI 6-GENOVA, ITALY.

Inventor : GIOVANNI SANTARNECCHI.

Application for Patent No. 596/Del/86 filed on 9th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

Two-wheeler vehicle having a device for locking in particular a crash helmet or any article having like dimensions of a crash helmet to the structure of the vehicle, said vehicle having a plane (4) for resting the helmet (1) or similarly dimensioned article, characterised by said locking device comprising a rope (5) resistant to tensile streases having a pair of hooking means (13, 14, 15) on terminal ends thereof, said hooking means (13, 14, 15) cooperating with engaging means (8, 16) spaced apart from each other, said engaging means (8, 16) being fixedly attached to the structure of the vehicle, a single hooking means (10, 23) provided at a central position of said rope for adjustably engaging a cooperating releasable hooking means (11, 22) attached to the structure of the vehicle at a point normal to and substantially midway of said spaced apart engaging (8, 16) and at a distance therefrom

substantially, equal to a dimension of the helmet (1) or article to be locked, said rope (5) extending in VEE formation from said single hooking means (10, 23) over said helmet or like dimensioned article to said spaced apart engaging means (8, 16) to retain said article on said frame of the vehicle.

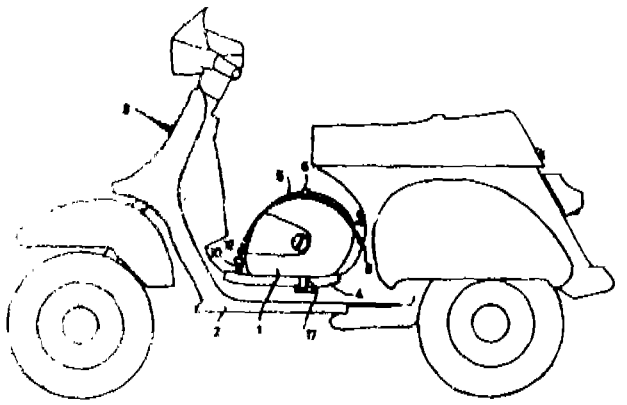


Fig. 1

Compl. Specn. 10 Pages. Drgs. 2 Sheets.

Ind. Cl : 40 H IV (1) 167753
Int. Cl.[4] : B 01 D 53/14.

ABSORBENT COMPOSITION.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 180 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : FRED JOHN HEINZELMANN, NOAH S. ROTHBLATT, GEORGE ROMAN CHLUDZINSKI, JAMES PARK GLASS, JR, GEOFFREY RHYS SAY, GUIDO SARTORI & WIN-SOW WINSTON HO.

Application for Patent No. 680/Del/86 filed on 25th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

10 Claims

An absorbent composition characterized in that it comprises; (1) at least one severely hindered amino compound having a cumulative -E_s Value (Taft's steric hindrance constant) greater than 1.75, and (2) an amine salt, said amine salt being the reaction product of an amine selected from the group consisting of a severely hindered amino compound having a cumulative-E_s Value greater than 1.75, a tertiary amine and mixtures thereof and a component selected from the group consisting of an acid having at least one pka of not more than about 7, a decomposable salt of an acid as herein described having at least one pka of not more than about 7, a compound capable of forming an acid as herein described heving a pka of not more than about 7 and mixtures thereof, said amine salt and said severely hindered amino compound being present in said absorbent composition in a mole ratio of said amine salt to said severely hindered amino compound of at least about 0.2:1

Compl. Specn. 28 Pages. Drgs. 2 Sheets.

Ind. Cl. : 80 H (VI) 167754
Int. Cl.[4] : B 01 D 21/00.

APPARATUS FOR GRAVITY SEDIMENTATION SEPARATION OF SOLIDS FROM LIQUIDS.

Applicant : PETERSON FILTERS CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF UTAH, UNITED STATES OF AMERICA, OF 1949 SOUTH 300 WEST, SALT LAKE CITY, STATE OF UTAH, UNITED STATES OF AMERICA.

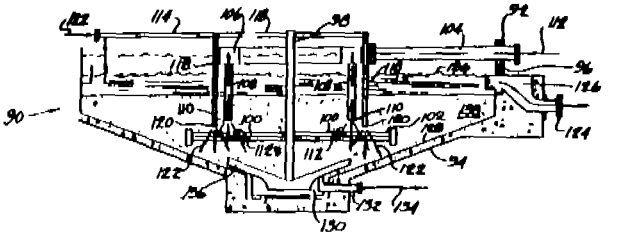
Inventor : CLARENCE LYNN PETERSON.

Application for Patent No. 725/Del/86 filed on 11th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

14 Claims

Apparatus for gravity sedimentation separation of solids from liquids characterised by a thickener-clarifier-type vessel (90) for holding a substantially constant volume of a feed slurry (112) and having an uppermost zone of clarified liquid in an upper portion of the vessel and a lowermost zone of concentrated solids in a bottom portion of the vessel with an intermediate central settling zone of varying solids concentrations therebetween which are in direct open unrestricted free-flow communication with one another, over flow means for continuously removing the clarified liquid from the upper portion of the vessel, underflow means for continously removing the highly concentrated solids from the bottom portion of the vessel, an impeller (102) mounted in said central settling zone directly above said lower most zone for creating a zone of intense mechanical agitation by rotation at tip speed of between approximately 300 to 600 feet per minute to create relatively small bead-like floccules for delivery to said lower most zone, slurry feed means for continuously discharging a feed slurry directly in to said central settling zone adjacent said impeller, and a flocculant feed means for continuously discharging a flocculant mixture directly in to said central settling zone adjacent said impeller and said slurry feed means.



Compl. Specn. 15 Pages. Drg. 1 Sheet.

Ind. Cl. : 56EV 167755
Int. Cl.[4] : C 07 C 7/04.

PROCESS FOR THE SEPARATION OF HYDROCARBONS FROM A MIXED FEEDSTOCK.

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, AND HAVING AN OFFICE AT 39 OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors : PAULINO FORTE, JOSE ANTONIO VIDUEIRA.

Application for Patent No. 836/Del/86 filed on 22nd September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

A steam distillation process for the recovery of hydrocarbons of the kind such as herein described from a feedstock of the kind such as herein described which comprises subjecting in an extractor, said feedstock to solvent extraction in the presence of a conventional solvent, at the temperature in the range of from 100 to 200°C and at a pressure from 75 to 200 psig, separating by conventional methods the raffinate essentially free of aromatics from the top of the extractor, removing by conventional methods solvent and any remaining aromatics from said raffinate, subjecting said solvent solution of aromatics to a counter-current reflux to recover the aromatics and separate rich solvent, flashing said rich solvent and/or removing side-cut distillate vapors characterised in that (a) said flashed rich solvent vapors or side-cut distillate vapors are heat exchanged with stripping water to produce stripping water vapors and stripping water at least the boiling point of water (b) subjecting the stripping water vapors of step (a) to steam ejection, (c) vapourising the stripping water from step (a) under pressure, (d) subjecting the stripping water vapors of step (c) to steam ejection and (e) recycling the water vapors of step (b) and (d) to the extraction step.

Compl. Specn. 22 Pages. Drg. 1 Sheet.

Ind. Cl. : 145E. 167756
Int. Cl.[4] : C 08 L 97/00.

AN ELECTROCHEMICAL PROCESS FOR THE CLEAVAGE OF LIGNINS.

Applicant : THE MINISTER OF AGRICULTURE FISHERIES FOOD IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, A BRITISH CORPORATION SOLE, OF GREAT WESTMINSTER HOUSE, HORSEFERRY ROAD, LONDON SW1P 2AE, ENGLAND.

Inventors : JAMES HENRY PAUL UTLEY & CARMEN ZENAROSA SMITH.

Application for Patent No. 996/Del/86 filed on 13th November, 1986.

Convention date November 13, 1985/8527960/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

An electrochemical process for the cleavage of lignin of the kind such as herein defined, at a yield greater than 6% comprising passing an electric current through an aqueous alkaline solution of the lignin at a temperature in the range of 110°C to 190°C whilst maintaining mixing of the solution.

Compl. Specn. 18 Pages. Drgs. 3 Sheets.

Ind. Cl. : 32 E. 167757
Int. Cl. : C 08 F 2/06.

HALOGEN-FREE POLYMERISATION PROCESS.

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 500 SOUTH STREET, AKRON, OHIO 44318, U.S.A.

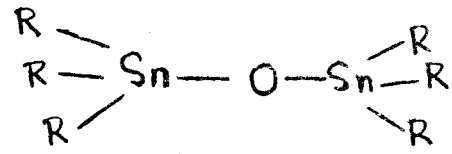
Inventors : ROBERT JOHN MINCHAK, JAMES THOMAS WARE & GERALD VANCE WOOTON.

Application for Patent No. 1039/Del/86 filed on 28th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110005.

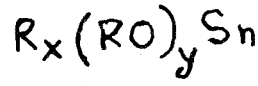
10 Claims

Halogen-free process for preparing halogen-free polymaric product such as herein described, said process comprises the step of polymerizing to a conversion level exceeding 80% by ringopening polymerization of a monomer charge which contains at least one cycloolefin monomer containing a norbornene group in the presence of a metathesis catalyst selected from molybdenum compounds, tungsten compounds, and mixtures thereof, such as herein described, a cocatalyst selected-from-alkylaluminum compounds; and a modifier compound selected from bis (triphenyltin) oxides of formula I



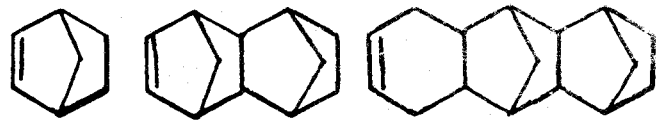
Formula I

of the drawings and alkylakoxytin compounds of Formula II



Formula II

of the drawings wherein each R group in Formula I and II can be the same or different and is selected from alkyl groups and aryl groups of 1 to 18 carbon atoms, and where the sum of x and y is 4, with y being 1 to 3, and wherein substituents on said cycloolefin monomer are independently selected from hydrogen alkyl groups of 2 to 4 carbon atoms and mixtures thereof; said cycloolefin monomer contains one of the following substituted and unsubstituted moities identified by Formulae III, IV and V



Formula III Formula IV Formula V

of the drawings; amount of said catalyst being 0.01 to 50 millimoles molybdenum or tungsten per mole of said cycloolefin monomer; the molar ratio of said cocatalyst as aluminum to said catalyst as molybdenum or tungsten is in the range of about 200 : 1 to 1 : 10; and the molar ratio of said modifier compound to aluminum is in the range of about 0.1 to 3 moles per mole of aluminum.

Compl. Specn. 32 Pages. Drgs. 2 Sheets

Ind. Cl. : 32 B. 167758
Int. Cl.[4] : C 07 C-7/10.

A METHOD FOR EXTRACTING AROMATIC HYDROCARBONS FROM HYDROCARBON OILS.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY A CORPORATION OF DELAWARE. UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 180 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : JAMES DAVID BELL.

Application for Patent No. 1110/Del/86 filed on 17th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

A method for extracting aromatic hydrocarbons such as hererin described from hydrocarbon oils using a combination extraction solvent containing (a) a polar extraction solvent such as herein described (b) an additive selected from aliphatic aromatics, polar naphthenes or morpholine and mixtures thereof, and (c) water; characterised in that component (b) is present at from 1 to up to but not including 10 LV% of the combination; and component (C) is present at from 0 to 10 LV%; the amount of component (a) being suitably adjusted to reflect the presence of any water used; said extraction being conducted at a temperature above the haze point of the oil, but at least 30°C below the critical solution temperature of the mixture of hydrocarbon oil and combination extraction solvent.

Compl. Specn. 48 Pages. Drgs. 3 Sheets.

Ind. Cl. : 98 G VII(1)] 167759
Int. Cl.[4] : H 05 B 3/00.

A METHOD FOR THE PRODUCTION OF A HEATING ELEMENT.

Applicant : POZEL S. A., OF GRAND RUE 56,1700 FRIBOURG, SWITZERLAND, A SWISS COMPANY

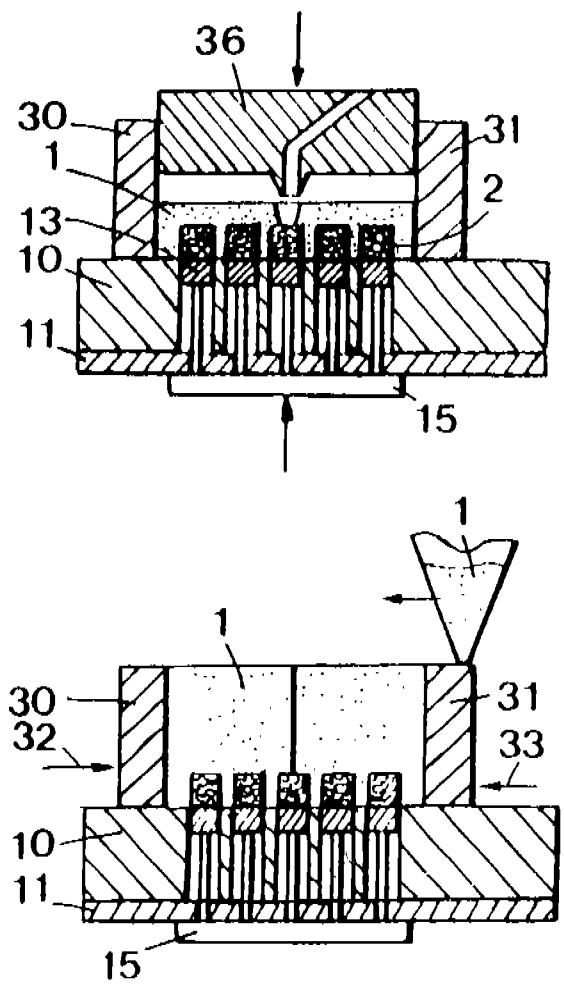
Inventors : VICTOR SPRETER, CONRAD ZELLWEGER.

Application for Patent No. 24/Del/87 filed on 13th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110005.

7 Claims

A method for the production of heating element having therein an exothermic reactive mixture of the kind such as herein described, a support (1) comprised of an insulating layer of refractory material from which perpendicular walls (3) extend, said walls (3) providing a hollow path (8) there between having there in said exothermic reactive mixture (2) said method comprising molding said reactive mixture in the shape of said hollow path and applying said insulating layer thereto, characterised by the steps of depositing a powdery reactive mixture of the kind such as herein described on a temporary support having thereon the reverse image of said hollow path, compressing said powdery reactive mixture while maintaining said compressed reactive mixture molded in the same form as said hollow path and depositing thereover a layer of a liquid or pulverulent refractory material such as herein described so that said pulverulent refreactory material fills the spaces between said compressed molded reactive mixture to thereby form said walls and said support of the insulating layer, subjecting said composite mass of refractory material and the reactive mixture to final treatment for effecting hardening.



Compl. Specn. 11 Pages. Drgs. 2 Sheets.

Ind. Cl. : 152 E XII(2). 167760
Int. Cl. : C08J-5/00, B 29C-63/00, H03K-3/10.

PROCESS FOR THE MANUFACTURE OF PLASTIC ARTICLES HAVING A METALLIC PATTERN ON THEIR SURFACES.

Applicant : KOLIMORGEN TECHNOLOGIES CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF TEXAS, UNITED STATES OF AMERICA, OF 717 NORTH HARWOOD STREET, SUITE 1000, LOCK BOX 67, DALLAS, TEXAS 75201, UNITED STATES OF AMERICA AND SCM CORPORATION, OF 299 PARK AVENUE, NEW YORK, NEW YORK 10171, UNITED STATES OF AMERICA.

Inventors : ERIC J. CLEVELAND & DAVID C. FRISCH.

Application for Patent No. 169/Del/87 filed on 25th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

13 Claims

A process for the manufacture of a plastic article of the kind described herein having a metallic pattern on its surface which comprises :

Moulding by a technique described herein a first insulating component of predetermined shape from an amorphous thermoplastic resin compound of the kind described herein or from a crystalline thermoplastic resin compound of the kind described herein;

moulding by a technique described herein from said amorphous resin compound or said crystalline resin compound a second insulating component of predetermined shape around said first component to form therewith a unitary body the surface of which is constituted by selected exposed areas of said first component surrounded by areas of said second component, the resin of said second component not being the same as the resin of said first component;

subjecting said unitary body to chemical oxidising treatment such as herein described to promote the adhesiveness of the exposed surface areas thereof consisting only of said amorphous resin compound and render such areas hydrophillic; and

depositing in any known manner metal on to said chemically treated exposed surface areas of said unitary body to provide the desired plastic article.

USES—The product of invention is used to form molded one-piece articles such as printed circuit boards and molded metallized one piece articles such as printed wiring boards.

Compl. Specn. 31 Pages. Drgs. 2 Sheets.

Ind. Cl. : 148 J. 167761
Int. Cl[4] : G03G 7/00.

AN IMPROVED ELECTROPHOTOGRAPHIC PHOTORECEPTOR AND METHOD OF MANUFACTURING SAME.

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF THE SATE OF DELAWARE, U.S.A. OF 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084. UNITED STATES OF AMERICA.

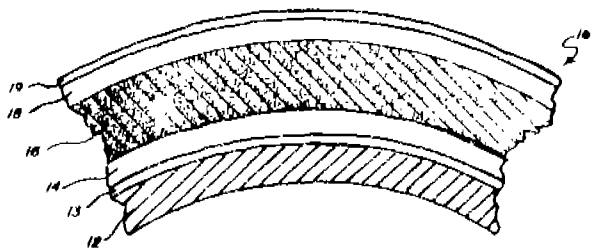
Inventor : MARVIN S. SISKIND.

Application for Patent No. 856/Del/86. Filed on 26th September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

10 Claims

An improved electrophotographic photoreceptor having an electrically conductive substrate (12) with a deposition surface; a blocking layer (14) of the kind such as herein described overlying the deposition surface of the substrate (12) for substantially preventing charge injection from the substrate (12) a photoconductive layer (16) of silicon alloys, germanium alloys or silicon-germanium alloys overlying the blocking layer (14) for discharging charge on the top surface of the photoreceptor; a top layer (19) of the kind such as herein described overlying the photoconductive layer (16) for protecting the photoconductive layer (16) from ambient conditions; characterised by a continuous, electrically conductive levelling layer (13) such as herein described overlying said deposition surface of the substrate (12) said levelling layer (13) having there in a known additive for selectively retarding the rate of deposition of said levelling layer (13) at those regions of the substrate (12) which exhibits the highest current density so as to present a substantially defect-free surface for the subsequent deposition there on to of successive homogeneous said layers (14, 16, 19) which are of semiconductor alloy material.



Compl. Specn. 37 Pages. Drgs. 2 Sheets.

Ind. Cl. : 69 E LIX (1). 167762
Int. Cl.[4] : H 01 H 21/76.

DRUM SWITCH.

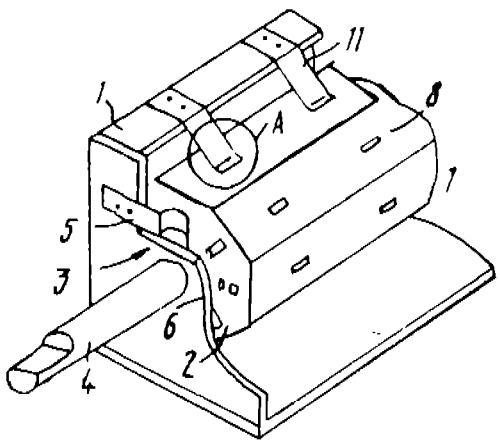
Applicant & Inventors : ANDREI FEDOSEEVICH IVANCHENKO, OF ULITSA ANGOLENKO, 14A, KV. 17, ZAPORZHIE, U.S.S.R., VLADIMIR MIKHAILOVICH KROKHMAL, OF ULITSA LENINA, 58, KV. 15, ZAPOROZHIE, U.S.S.R : VLADIMIR VLADIMIROVICH KONOVALENKO, OF VODONAPORNAYA ULITSA, 16A, ZAPOROZHIE, U.S.S.R. : VIKTOR ALEXANDROVICH BUDYKO, OF ULITSA MIRA, 20, KV. 60, ZAPOROZHIE, U.S.S.R : BORIS NIKOLAEVICH LASTOCHKIN, OF ULITSA LENINA, 58, KV. 4, ZAPOROZHIE, U.S.S.R. AND ALEXANDER LUKYANOVICH KHIZHNYAK, OF ULITSA CHUMACHENKO 17, KV. 140, ZAPOROZHIE, U.S.S.R., ALL THE INVENTORS ARE CITIZENS OF USSR.

Application for Patent No. 183/Del/87 filed on 3rd March 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

2 Claims

A drum switch comprising a housing (1) accommodating rotatable drum (2) connected to a mechanism (3) for locking it in position, a plurality of cylindrical contacts (8) being located at the outer surface of the drum to cooperate with cylindrical current collecting contacts (9) disposed perpendicularly to the contacts of the drum on flat springs (11) secured in a cantilever fashion to the housing, the length of each drum contact being less than the tolerence zone wherein the drum contacts engage with the current collecing contacts, the number of current collecting contacts at each flat spring exceeding or equaling two, and the distance between their axes being equal to or less than the length of the drum contacts.



Compl. Specn. 14 Pages. Drg. 1 Sheet.

Ind. Cl. : 49-D, 49-E [XV (i)] 167763
Int. Cl.[4] : A 22. C. 29/00, 29/02.

APPARATUS FOR DE-SHELLING CRUSTACEANS.

Applicant & Inventors : OTTO BITLEV HANSEN, OF OSTRE SKOVVEJ 21, DK-8420 RISSKOV, DENMARK AND BENT KRONBORG NIELASEN, OF FALKEVEJ 45, DK-9352 DYBVAD, DENMARK BOTH DANISH CITIZENS.

Application for Patent No. 392/Del/87 filed on 6th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

Apparatus for de-shelling crustaceans which comprises a vacuum chamber, an inlet at the upper end of said chamber for the delivery of preheated crustaceans from an external supply container connected to said inlet, an outlet at the lower end of said chamber for the exit of treated crustaceans and means provided within said chamber for decelerating the rate of flow of crustaceans delivered through said inlet at speed characterised in that said inlet is provided with one or more inlet valves for the controlled, intermittent delivery of said pre-heated crustaceans to said braking means within said chamber, said braking means comprising at least one deflecting member having a rigid or semi-rigid receiving surface disposed obliquely with respect to the path of delivery of pre-heated crustaceans from said inlet, water supply means being provided in said chamber for sprinkling or directing a supply of water onto the receiving surface of said deflecting member, a pump connecting the outlet of said chamber to separation device, said pump pumping out the resulting mixture of water, shells and crustacean meat from said chamber to said separation device where the meat from said chamber to said separation device where the meat is separated from the shells for being conveyed to a delivery station.

Compl. Specn. 14 Pages. Drg. 1 Sheet.

Ind. Cl. : 9 F. 167764
Int. Cl.[4] : B 22 F 7/00.

A METHOD OF PRODUCING A POWDERED METAL ALUMINUM BASE BEARING MATERIAL.

Applicant : J. P. I. TRANSPORTATION PRODUCTS, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MICHIGAN, OF 325 EAST EISENHOWER DRIVE, ANN ARBER, MICHIGAN 48104, UNITED STATES OF AMERICA.

Inventors : KENNETH ADAM BRYDA, HANS GUSTAF LANNER, RODNEY WAYNE STUTZMAN AND WILLIAM ALBERT YAHRAUS.

Application for Patent No. 408/Del/87 filed on 12th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

5 Claims

Method of producing a powdered metal aluminum base bearing material having superior fatigue and anti-seizure properties which method comprises :

(a) simultaneously roll compacting three distinct layers of aluminum base powder particles, in which the bottom layer of said layers constitutes a powder metal bonding layer consisting essentially of more than 55 weight percent aluminum and the balance selected from a first group of additives consisting of silicon, copper, manganese, magnesium, nickel, iron, zinc, chromium, zirconium, titanium and mixtures thereof;

the intermediate layer of said layers constitutes a powder metal bearing layer consisting essentially of from 55 to 95 weight percent aluminum, with the balance being selected from said first group of additives in an amount of from 1 to 20 weight percent and from a second group of bearing phase additives in the amount of from 5 to 25 weight percent, said second group consisting of lead, tin, cadmium bismith, antimony and mixtures thereof;

the surface layer of said layers constitutes a sacrificial layer deposited on said powder metal bearing layer and consisting essentially of more than 50 weight percent of aluminum particles and the balance of additives selected from said first and second groups;

with said aluminum and said bearing phase materials of said bearing layer being placed in prealloyed particle form to establish an intra-particle postion relative to each other and the bearing phase particles in said sacrificial layer being formed for establishing an interstitial position therein relative to the aluminum particles;

(b) sintering the so formed three-layered composite; and

(c) roll cladding the bonding layer face to face onto a rigid backing layer;

characterised in that the roll clad composite material is heat treated in a continuous manner such as herein described to a temperature from 700°F to 900°F for a period of at least thirty seconds and then cooling the material at a rate of greater than 100°F/hr.

Compl. Specn. 12 Pages. Drgs. 2 Sheets.

Ind. Cl. : 76E [LXIV (4)]. 167765
Int. Cl.[4] : B 29 D 7/01. & B 32 B 27/32.

SEALABLE LAMINATE FOR SEALING AND PACKAGING.

Applicant : EXXON CHEMICAL PATENTS, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY 07036, UNITED STATES OF AMERICA.

Inventors : BERNARD LOUIS LUC BOSSAERT, STEFAN BERTIL OHLSSON & WILLIAM FRANS MARIA JOSEF WILLEMS.

Application for Patent No. 461/Del/87 filed on 1st June, 1987.

Convention date May 30, 1986/86-13161/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

16 Claims

A sealable laminate for sealing and packaging comprising a base layer which comprises 70 to 97 weight % of a polyolefin and 3 to 30 weight % of a resin having a molecular weight lower than that of the polyolefin, said layer having on at least one surface ther of 1 to 20 weight % based on the weight of the base layer, of a film layer consisting of a copolymer of 80 to 99 weight % of propylene and 1 to 20 weight % of ethylene, said resin having a softening point of from 120 to 180°C.

Compl. Specn. 14 Pages. Drgs. 4 Sheets.

Ind. Cl. : 32 F 2 b. 167766
Int. Cl[4] : C 07 D 295/02.

IMPROVED PROCESS FOR THE PREPARATION OF N, N'—TETRATHIODI-MORPHOLINE.

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 1144 EAST MARKET STREET, AKRON, OHIO 44316-0001, UNITED STATES OF AMERICA.

Inventors : ANGELO BERGOMI & ANDREW JOSEPH KUCZKOWSKI.

Application for Patent No. 524/Del/87, filed on 18th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

11 Claims

A process for the preparation of N, N' tetrathiodimorpholine said process comprises reacting a mixture of morpholine and sulfur at a mole ratio of morpholine to sulfur of from 0.5 : 1.0 to 5 : 1 with air or oxygen at a temperature of from 0°C to 80°C in the presence of iron salts or complexes such as herein described and zinc compounds such as herein described and isolating N, N' lielira tetrathiodimorpholines in a manner known per-se.

Compl. Specn. 13 Pages. Drg. Nil.

Ind. Cl. : 152 E. 167767
Int. Cl.[4] : C 08 L 23/06.

A POLYMERIC COMPOSITION SUITABLE FOR USE AS ELECTRICAL INSULATION AND PROCESS FOR PREPARING THE SAME AND AN ELECTRIC WIRE OR CABLE COMPRISING AN INSULATION MADE OF SAID POLYMERIC COMPOSITION.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76, BUCKINGHAM PALACE ROAD, LONDON SW 1 W OSU, ENGLAND.

Inventors : JAFFREY DAVID UMPLEBY AND RODOLPHE CHARLEY CLOETENS.

Application for Patent No. 574/Del/87, filed on 7th July, 1987.

Convention date July 11, 1986/8617004/(U. K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

14 Claims

A polymeric composition, suitable for use as electrical insulation, comprising a polymeric component such as herein desecribed and a water tree ratardant additive characterised in that the additive is selected from the group consisting of :

(A) an argano orthoborate or partial ester of boric acid having the general formula;

$$B(OR)(OR^1)(OR^2)$$

in which R is an alkyl, aryl, aralkyl, alkaryl or cycloalkyl group having from 4 to 24 carbon atoms and R^1 and R^2 are individually hydrogen or an alkyl, aryl, aralkyl, alkaryl or cycloalkyl group having from 4 to 24 carbon atoms and

(B) an organo orthoborate or partial ester of boric acid with a polyhydric hydrocarbyl alcohol and the amount of the water tree retardant, additive is from 0.1 to 10% by weight based on the combined weight of the polymeric component and the water tree retardant additive.

Compl. Specn. 17. Pages.

Ind. Cl. : 141-C. 167768
Int. Cl.[4] : C 22 B 34/32 1/00.

PROCESS FOR SOLID STATE REDUCTION OF CHROMITE ORES.

Applicant : SAMANCOR LIMITED, OF SAMANCOR HOUSE, 68 MARSHALL STREET, JOHANNESBURG, TRANSVAAL PROVINCE, REPUBLIC OF SOUTH AFRICA, A SOUTH AFRICAN COMPANY.

Inventors : FINCH NICHOLAS DAWSON & IVAN RODERICK EDWARDS.

Application for Patent No. 658/Del/87 filed on 29th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

16 Claims

A process for the solid state reduction of chromite ores, said process comprising intimately mixing a finely divided chormite ore with a finely divided carbonaceous reductant of the kind such as herein described and a flux comprising at least one alkali metal aluminum silicate, silica and calcium fluoride and heating above said mixture at a temperature in the range of from 1200°C to 1500°C and for a time chosen to cause the formation of a substantially liquid flux phase in contact with adjacent solid particles of chromite and carbonaceous reductant.

Compl.Specn. 27 Pages. Drgs. 4 Sheets.

Ind. Cl. : 55 D_2. 167769
Int. $Cl.^4$: A 01 N 25/12 & 25/26.

A PROCESS FOR THE PREPARATION OF CONTROLLED RELEASE AGROCHEMICAL GRANULES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860)

Inventors : COMANDUR BHASKAR, PARSHURAM GAJANAN SHUKLA, NATARAJAN RAJAGOPALAN AND RAJAT BARAN MITRA.

Application for Patent No. 881/Del/87 filed on 8th October, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

7 Claims

A process for the preparation of controlled release agrochemical granules based on starch or other polyhydric compounds which comprises,

(a) pregelatinising, of the starch or other polyhydric compounds by heating with 2-4 times its weight of water at 80-100°C for a period of 15-60 minutes to obtain a transparent homogenous paste;

(b) dispersing of an agrochemical such as herein described by mixing with the above said homogenous paste, for a period of 10-30 minutes;

(c) preparing a water soluble precondensate such as herein described in mildly alkaline or neutral conditions;

(d) heating the dispersion obtained in step (b) with the precondensate prepared in the step (c) after neutralisation, if necessary;

(e) thoroughly mixing the same for a period of 10-60 minutes followed by addition of an aqueous acid solution to bring down the pH to 3-4;

(f) continuing the mixing for a period of 60-120 minutes till the pasty mass is transformed to a rubbery product which finally crumbles; and

(g) wet sieving the product through a 5 or 10 mesh sieve and drying it in an air draught over a 40-50°C for 1-6 hrs to get the granules.

Compl. Specn. 14 Pages. Drg. 1 Sheet.

Ind. Cl. : 32 F. 3. b. (IX (1)). 167770
Int. Cl. : C 07 C 59/265.

SEPARATION OF CITRIC ACID FROM FERMENTATION BROTH WITH A NONZEOLITE POLYMERIC ADSORBENT.

Applicant : UOP INC., A CORPORATION ORGANIZED UNDER LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPLE OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS UNITED STATES OF AMERICA.

Inventor : SANTI KULPRATHIPANAJA.

Application for Patent No. 22/Del/88 filed on 12 January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-5.

6 Claims

An adsorption process for separating citric acid from a fermentation broth feed mixture containing citric acid comprising contacting said mixture, at a pH lower than the first ionization constant (pK_{a1}) of citric neutral, cross linked polystyrene polymer, a nonionic hydrophobic polyacrylic ester polymer, a weakly basic anionic exchange resin possessing teritiary amine or pyridine functional groups, and a strongly basic anionic exchange resin possessing quaternary amine functional groups and admixtures thereof at adsorption conditions selected to selectively adsorb said citric acid comprising a temperature within the range of from 20°C to 200°C and a pressure within the range of from atmospheric to 500 psig (3450 Kpa gauge) and thereafter recovering said citric acid from said adsorbent with a desorbent as herein described at desorption conditions comprising a temperature within the range of from 20°C to 200°C and a pressure within the range of from atmospheric to 500 psig (3450 Kpa gauge).

Compl. Specn. 46 Pages. Drgs. 18 Sheets.

Name index of applicant for patents for the month of July, 1990 (No. 546/Cal/90 to 651/Cal/90, 175/Bom/90 to 196/Bom/90, 530/Mas/90 to 627/Mas/90 and 666/Del/90 to 776/Del/90.

Name & Appln. No.

CALCUTTA

—A—

A. Gracetus.—629/Cal/90.

Alcan International Ltd.—609/Cal/90 & 610/Cal/90.

American Cyanamid Co.—582/Cal/90 & 646/Cal/90.

Atochem North Amenica, Inc.—622/Cal/90 & 646/Cal/90.

Ausimont S. r. l. 566/Cal/90, 571/Cal/90 & 572/Cal/90.

—B—

Ball Corporation.—555/Cal/90.

Ballmann, D. 559/Cal/90.

Bando Chemical Industries Ltd.—547/Cal/90.

Bata India Ltd.—636/Cal/90.

—C—

C. R. Bard, Inc.—558/Cal/90.

Carrol, N.—570/Cal/90.

Chatterjee, M. K.—600/Cal/90.

Commodore-amiga, Inc.—606/Cal/90.

Conoast Standard AG.—626/Cal/90.

Critikon, Inc.—561/Cal/90.

Crushmore Maxban India.—616/Cal/90.

—D—

Das, A. K. 546/Cal/90, 617/Cal/90, 618/Cal/90, 619/Cal/90 & 620/Cal/90.

De Nora Permelec S.P.A.—602/Cal/90.

Dirk, W. 577/Cal/90.

Dow Chemical Co. The.—602/Cal/90.

Du Pont Canada Inc.—621/Cal/90.

—E—

E.I. Du Pont De Nemours & Co.—574/Cal/90, 592/Cal/90, 608/Cal/90, 635/Cal/90 & 640/Cal/90.

Elpatronic Ag.—612/Cal/90.

Ethicon, Inc.—551/Cal/90 & 607/Cal/90.

Name & Appln. No.

—F—

Felten & Guilleaume Fabrik Elektrischer Apparate Aktiengesellschaft.—644/Cal/90.

Fritz Kramer.—587/Cal/90.

—G—

General Electric Co.—573/Cal/90.

Golden Valley Microwave Foods Inc.—611/Cal/90, 623/Cal/90, & 631/Cal/90.

Goldstar Co. Ltd.—645/Cal/90.

—H—

Himont Incorporated.—624/Cal/90.

Hitachi Construction Machinery Co. Ltd.—580/Cal/90 & 598/Cal/90.

Hitachi Ltd.—552/Cal/90 & 643/Cal/90.

Hoechst Aktiengesellschaft.—567/Cal/90, 579/Cal/90, 625/Cal/90, 627/Cal/90 & 639/Cal/90.

Hsu, Y. T.—557/Cal/90.

—J—

Jhajharia, S. K.—578/Cal/90.

Johnson & Johnson Consumer Products, Inc.—560/Cal/90.

KSB Aktiengesellschaft.—641/Cal/90.

Kabd-Und Metallwerke Cente Hoffnungshutte AG.—593/Cal/90.

Kabelmetal Electo Gesellschaft mit beschrankter Haftung.—630/Cal/90.

Krupp Koppers Gmbh.—576/Cal/90.

—L—

Lanxide Technology Co., LP.—564/Cal/90, 565/Cal/90, 595/Cal/90, 596/Cal/90 & 597/Cal/90.

—M—

M. L. Dalmiya & Co. Ltd.—632/Cal/90, 633/Cal/90 & 634/Cal/90.

MWB Messwandler-Bau Aktiengesellschaft.—553/Cal/90 & 554/Cal/90.

Marcellus, CP. L. Simkens.—581/Cal/90.

Maschinenfabrik Andritz Actiengesellschaft.—589/Cal/90.

Merck Patent Gesellschaft Mit Beschrankter Haftung.—548/Cal/90.

Metallgesellschaft Aktiengesellschaft.—638/Cal/90.

Name & Appln. No.

—N—

Nederlandse Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzock Tno.—591/Cal/90.

Nippon Shokubai Kogaku Kogya-Co. Ltd.—603/Cal/90.

—P—

Philips Petroleum Co.—648/Cal/90.

Polyolefins Industries Ltd.—599/Cal/90.

Projects & Development India Ltd.—586/Cal/90.

—R—

Richter Gedeon Vegyeszeti Gyar Rt.—604/Cal/90.

Sc[illegible]by Corporation.—651/Cal/90.

—S—

Samsung Electron Devices Co. Ltd.—613/Cal/90, 614/Cal/90 & 615/Cal/90.

Scandinor.—A/S.—594/Cal/90.

Siemens Aktiengesellschaft.—562/Cal/90 & 605/Cal/90.

Silicon Graphics, Inc.—637/Cal/90 & 642/Cal/90.

Sur, S. N. (Dr.).—599/Cal/90.

Swann-Morton Ltd.—649/Cal/90.

—T—

Tokin Seiki Co. Ltd.—556/Cal/90.

Thomson Consumer Electronics Inc.—588/Cal/90 & 650/Cal/90.

Tautzschler Gmbh & Co. Kg.—563/Cal/90, 575/Cal/90 & 590/Cal/90.

—V—

Ven, [illegible]—647/Cal/90.

Ven, J.—647/Cal/90.

Ven, K.—647/Cal/90.

Ven, P.—647/Cal/90.

Ven, T.—647/Cal/90.

Voest-alpine Zeltwer Gesellschaft MBH.—568/Cal/90.

—W—

Westinghouse Electric Corporation.—569/Cal/90, 583/Cal/90, 584/Cal/90 & 585/Cal/90.

Wisconsin Alumni Research Foundation.—549/Cal/90 & 550/Cal/90

Name & Appln. No.

BOMBAY

—B—

Bajaj Auto Ltd.—192/Bom/90.

Bapat, G. S.—182/Bom/90.

Birmal, V. R.—191/Bom/90.

—D—

Daruwalla, R. M.—178/Bom/90.

Deodhar M. V.—194/Bom/90.

—H—

Hindustan Lever Ltd.—183/Bom/90 & 187/Bom/90.

Hoechst India Ltd.—193/Bom/90.

—I—

Industrial Progress, Inc.—184/Bom/90, 185/Bom/90 & 186/Bom/90.

—K—

Kalla, K.—177/Bom/90.

Kansara, J. C.—181/Bom/90.

Kowley, A. J.—179/Bom/90.

—M—

Mehta, H. C.—188/Bom/90 & 189/Bom/90.

—N—

Nair, K. V. R.—190/Bom/90.

—P—

Parkhi, M. M.—195/Bom/90.

Patel, A. H.—180/Bom/90.

—S—

Sapre, A. S.—175/Bom/90 & 176/Bom/90.

—V—

V. I. P. Industries Ltd.—196/Bom/90.

MADRAS

—A—

American Telephone & Telegraph Co.—627/Mas/90.

Asea Brown Boveri Ltd.—598/Mas/90.

Astroturf Industries, Inc.—590/Mas/90.

Name & Appln. No.

—B—

BASF Aktiengesellschaft.—552/Mas/90.

BASF Corporation.—534/Mas/90.

—C—

CPC International Inc.—559/Mas/90.

Charbonnages de France.—625/Mas/90.

Chevron Research & Technology Co.—601/Mas/90.

Compagnie Generale Des Etablissements Michelin-Michelin & Cie.—595/Mas/90.

Comprimo B. V.—574/Mas/90.

—D—

Dana Corporation.—555/Mas/90.

Davy Mckee (London) Ltd.—616/Mas/90, 617/Mas/90.

Decan Motor Cycle & Scooter Garrage.—565/Mas/90.

Dow Chemical Co. The.—541/Mas/90, 619/Mas/90 & 621/Mas/90.

—E—

Enichem Synthesis S.p.A.—605/Mas/90.

—F—

Fabersanitas, S. A.—532/Mas/90.

Foseco International Ltd.—563/Mas/90.

—G—

GEC-Marconi Ltd.—583/Mas/90.

Geneshan, V.—582/Mas/90.

Gebruder Adama Armaturen U Apparate GmbH & Co.—545/Mas/90.

—H—

Haldor Topese A/S.—558/Mas/90.

Hamlin Transmission Corporation.—609/Mas/90 & 610/Mas/90.

Hedley Purvis Ltd.—554/Mas/90.

Henkel Corporation.—576/Mas/90.

Himont Incorporated.—533/Mas/90.

Hindustan Aeronautics Ltd.—540/Mas/90.

—I—

IDI Chemical Ltd.—530/Mas/90.

Institut Francais du Petrole.—557/Mas/90 & 611/Mas/90.

Name & Appln. No.

I—Contd.

International Business Machines Corporation.—584/Mas/90, 585/Mas/90, 586/Mas/90, 587/Mas/90, 588/Mas/90 & 589/Mas/90.

International Instruments Ltd.—579/Mas/90 & 580/Mas/90.

Inventio AG.—623/Mas/90 & 624/Mas/90.

—K—

Kayser, E. R. J.—560/Mas/90.

Kiran, R. V. R. R.—539/Mas/90.

Korde, U.—569/Mas/90.

Koshy, I.—614/Mas/90.

—L—

Laboratoires Delagrange.—578/Mas/90.

Lan, L.—571/Mas/90.

Leone, D.—562/Mas/90.

Loyal Machine Works Ltd.—599/Mas/90 & 600/Mas/90.

Lucas Industries Public Ltd. Co.—546/Mas/90, 547/Mas/90 & 548/Mas/90.

—M—

Maschinenfabrik Rieter AG.—535/Mas/90, 536/Mas/90 & 570/Mas/90.

Mc Gill, S. R.—567/Mas/90.

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Merlin Gerin.—575/Mas/90.

Minnesota Mining & Manufacturing Co.—537/Mas/90, 538/Mas/90, 542/Mas/90, 564/Mas/90 & 602/Mas/90.

—N—

Nadella.—615/Mas/90.

Natarajan, G. V.—573/Mas/90.

Nebenzahl, I. D.—544/Mas/90.

Norton Co.—543/Mas/90.

—O—

ONX, Inc.—596/Mas/90.

Owens-Illinois Plastic Products Inc.—608/Mas/90.

—P—

Palltex Project Co. GmbH.—613/Mas/90.

Permascand A. B.—550/Mas/90.

Pletcher Smith Ltd.—613/Mas/90.

Name & Appln No.

—R—

Rao, B. M.—581/Mas/90.

Rhone-Poulenc Chimie.—603/Mas/90 & 604/Mas/90.

Rhone-Poulenc Films.—620/Mas/90.

Rockwell International Corporation.—566/Mas/90.

Roe Lee Paper Chemicals Co. Ltd.—612/Mas/90.

Rosemount Inc.—597/Mas/90.

—S—

Schubert & Salzer Maschinenfabrik Aktiengesellschaft.—568/Mas/90.

Shell Internationale Research Maatschappij B. V.—618/Mas/90.

Shetty, K. V.—549/Mas/90.

Shree Chitra Tirunal Institute for Medical Sciences & Technology.—531/Mas/90.

Sonth India Textile Research Association.—626/Mas/90.

Statefocus Ltd.—622/Mas/90.

Sumitomo Chemical Co. Ltd.—607/Mas/90.

—T—

TI Diamond Chain Ltd.—577/Mas/90.

Thalkettil, J. (Dr.).—592/Mas/90, 593/Mas/90 & 594/Mas/90.

—U—

United Kingdom Atomic Energy Authority.—561/Mas/90.

Uponor N. V.—551/Mas/90.

Usinor Sacilor.—606/Mas/90.

—Y—

Yue, Z.—571/Mas/90.

—Z—

Zellweger Uster Ag.—556/Mas/90.

DELHI

—A—

Achari, B. K.—713/Del/90.

Aerosep Societe Anonyme.—883/Del/90.

Name & Appln. No.

A—Contd.

Airtech Private Ltd.—774/Del/90.

Alcan International Ltd.—747/Del/90 & 755/Del/90.

—B—

B. F. Goodrich Co. The.—668/Del/90, 708/Del/90, 723/Del/90 & 752/Del/90.

B. P. Chemicals Ltd.—678/Del/90 & 696/Del/90.

BWE Ltd.—685/Del/90.

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Bharat Heavy Electricals Ltd.—711/Del/90.

Bice Public Ltd. Co.—751/Del/90.

Beuchara S. A.—721/Del/90.

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—C—

C. R. Bard. Inc.—728/Del/90 & 746/Del/90.

Carey, I.—756/Del/90.

Colgate-Palmolive Co.—694/Del/90.

Cotton Incorporated.—679/Del/90.

Council of Scientific & Industrial Research.—688/Del/90, 689/Del/90, 690/Del/90, 691/Del/90, 692/Del/90, 693/Del/90, 705/Del/90, 714/Del/90, 715/Del/90, 758/Del/90, 759/Del/90, 760/Del/90, 761/Del/90, 762/Del/90, 763/Del/90 & 764/Del/90.

Crown Berger Europe Ltd.—750/Del/90.

—D—

David, T. J.—709/Del/90 & 710/Del/90.

Delsey S. A.—695/Del/90.

Dynavac GmbH.—698/Del/90.

—E—

European Atomic Energy Community (Euratom).—776/Del/90.

Exxon Chemical Patents, Inc.—738/Del/90.

—G—

GEC Alsthom S. A.—667/Del/90 & 745/Del/90.

Name & Appln. No.

—H—

Hartmann & Braun Aktiengesellschaft.—684/Del/90, 697/Del/90 & 765/Del/90.

Hs, S. C.—725/Del/90.

—I—

Imperial Chemical Industries PLC.—679/Del/90.

Innovacio I Treball Cooperatiu ITC, S. Coop. C. LTDA.—744/Del/90.

International Business Machines Corporation.—739/Del/90, 740/Del/90, 741/Del/90 & 742/Del/90.

Interox.—704/Del/90.

—K—

Kabelschlepp Gesellschaft Mit Beschrankter Haftung.—757/Del/90 & 773/Del/90.

Kabushiki Kaisha Toshiba.—673/Del/90.

Kapoor, B. (Smt.).—729/Del/90, 730/Del/90, 731/Del/90, 732/Del/90, 733/Del/90, 734/Del/90, 735/Del/90, 736/Del/90 & 737/Del/90.

Khetrapal, J.—682/Del/90.

Khetrapal, J. D.—(Prof.).—729/Del/90, 730/Del/90, 731/Del/90, 732/Del/90, 733/Del/90, 734/Del/90, 735/Del/90, 736/Del/90 & 737/Del/90.

Khetrapal, R. Mr.—729/Del/90, 730/Del/90, 731/Del/90, 732/Del/90, 733/Del/90, 734/Del/90, 735/Del/90, 736/Del/90 & 737/Del/90.

Khetrapal, S. (Mrs.).—729/Del/90, 730/Del/90, 731/Del/90, 732/Del/90, 733/Del/90, 734/Del/90, 735/Del/90, 736/Del/90 & 737/Del/90.

—L—

L' Air Liquide Societe Anonyme Pour L' Etude Et L' Exploitation des Procedes Georges Claude.—766/Del/90.

Lubrizol Corporation, The.—686/Del/90, 706/Del/90, 718/Del/90 & 772/Del/90.

—M—

M. W. Kellogg Co. The.—687/Del/90.

Motorola Inc.—669/Del/90.

—N—

National Research Development Corporation of India.—767/Del/90.

Name & Appln. No.

—P—

Panelfold, Inc.—700/Del/90.

Paul Wurth S. A.—754/Del/90.

Peterson Manufacturing Co. Inc.—681/Del/90.

Pilatus Flugzeugwerke AG.—666/Del/90.

Procter & Gamble Co. The.—680/Del/90, 699/DEl/90 & 769/Del/90.

—R—

Rohm & Hass Co.—749/Del/90.

—S—

Sinder, D.—672/Del/90.

Singh, H. P.—671/Del/90.

Societe De Conseils De Recherches Et D' Applications Scientifiques (S. C. R. A. S.).—727/Del/90 & 753/Del/90.

Societe Nationale D' Etude Et D Construction De Moteurs D Aviation S. N. E. C. M. A.—743/Del/90.

Sridharan, D. V.—719/Del/90.

Srivastava, D. N.—768/Del/90.

Steel Authority of India Ltd.—720/Del/90, 748/Del/90.

—T—

Trifree Ltd.—775/Del/90.

Tyagi, G. D.—712/Del/90.

—U—

UOP.—674/Del/90.

UTDC INC.—707/Del/90.

—V—

Voest-Alpine Aktiengesellschaft.—722/[illegible].

—W—

Walt, P. J. V.—726/Del/90.

Warner Lambert Co.—675/Del/90, 676/Del/90, 677/Del/90, 701/Del/90, 702/Del/90, 703/Del/90, 716/Del/90 & 717/Del/90.

Whirlpool Corporation.—770/Del/90 & 771/Del/90.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration in the entry.

Class 1. No. 162223. Partecipazioni Bulgari S.p.A., an Italian Company of 5, Via Gregoriana-00187 Roma, Italy. "Ring". June 18, 1990.

Class 1. No. 162224. Partecipazioni Bulgari S.p.A., an Italian Company of 5, Via Gregoriana-00187 Roma, Italy. "Cuff-Links". June 18, 1990.

Class 1. No. 162225. to 162227 Partecipazioni Bulgari S.p.A, an Italian Company of 5, Via Gregoriana-00187 Roma, Italy. "Necklace". June 18, 1990.

Class 1. No. 162228 to 162230 Partecipazioni Bulgari S.p.A., an Italian Company of 5, Via Gregoriana-00187 Roma, Italy. "Bracelet". June 18, 1990.

Class 1. No. 162231 to 162234, Partecipazioni Bulgari S.p.A., an Italian Company of 5, Via Gregoriana-00187 Roma, Italy. "Earring". June 18, 1990.

Class 3. No. 162117. Viha Appliances Pvt. Ltd., Indian Company of 221/B, Maker Towers, Cuffe Parade, Bombay-400005, Maharashtra, India. "Deep Frier". May 18, 1990.

Class 12. No. 162143. Britannia Industries Ltd., 5/1A, Hungerford Street, Calcutta-700017, W. B., India, Indian Company. "Biscuit". May 24, 1990.

R. A. ACHARYA
Controller General of Patents,
Designs and Trade Marks.

प्र० मा० स० मु० फ०—जी० 367 जी० आई०/90—300.

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